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The CHEMIST AND DRUGGIST

for RETAILER - WHOLESALE - MANUFACTURER

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

No. 3110
VOL. CXXXI

SEPTEMBER 16, 1939

Annual Subscription (with
Diary) 20/- Single Copies 9d.

HOT WATER BOTTLES, AND —
they sell like
hot cakes!

Dunlop Hot Water Bottles enjoy a popularity shared by no others. Their known dependability and their unique combination of supreme quality with low price place them beyond all competition. For sure, swift sale—see especially Dunlop models retailing at 2/11 and 3/3. But there are Dunlop Bottles for every class of trade.

Fixed retail prices
DUNLOP COSIMAX. (Illustrated.)
Standard Size - 10/6 Senior Size - 14/11
Foot Warmer - 10/6
Nursery Cosimax with animal motif - 10/6

DUNLOP HAND-MADE FABRIC INSERTION BOTTLE In Red and White.

Size	Red	White	Size	Red	White
6 in. x 10 in.	4/11	4/6	8 in. x 12 in.	6/6	5/6
8 in. x 10 in.	5/6	4/11	10 in. x 12 in.	7/6	6/6

DUNLOP MOULDED FABRIC INSERTION BOTTLE - - - In Red only - - 4/6

And remember the Irresistible ANIMAL Series for Children at 3/11, 4/6 and 5/9.



**DUNLOP
ALL-RUBBER
MOULDED
BOTTLES.**
(Illustrated.)
Fixed retail price 2/11
With handle - 3/3

WILL BE ADVERTISED IN "PUNCH" AND THE "RADIO TIMES".

DUNLOP HOT WATER BOTTLES

Obtainable from Wholesale Houses only.

DUNLOP RUBBER CO. LTD. (General Rubber Goods Division), Cambridge St., Manchester, 1. London: Rubber House, Brooke's Market, Holborn, E.C.1

9HWB5/6

Index to Advertisers, pp. 5 & 6.

CHRISTMAS TRADE NUMBER

*Maintain your
takings and profits!*

Sell

Euthymol TOOTH PASTE

- (1) NO PRICE REDUCTION
- (2) NO SIXPENNY SIZE
- (3) ON THE P.A.T.A FOR
OVER 30 YEARS

Minimum Retail Price
1s. 3d. per tube



Send for Bonus Terms to:
PARKE, DAVIS & CO.
50 BEAK ST., LONDON, W.1

STREAMLINED FOR RECORD BREAKING SALES

The HALEX TOOTHBRUSH

IN THE REVOLUTIONARY
Streamline CASE



★ TAKE ADVANTAGE OF THE SPECIAL BONUS OFFER . . .

it gives you **75% PROFIT**

UNTIL SEPTEMBER 30th order Halex toothbrushes on Bonus terms—then you will receive *two free brushes added to every dozen*. That means you will be selling Halex brushes at 75% PROFIT!

Suppose you order a gross of 'shilling' brushes. That costs you 96/-.

But instead of 144 brushes, you get 168 (two free brushes added to every dozen).

Then you sell your 'gross' for 1/- each. That brings you 168/-.

Bought for 96/- . . . sold for 168/- . . . that gives you a profit of 75%.

This offer is specially made to help you get the utmost profit from the great sales value of the 'Streamline' case!

**Hurry up with your
BONUS ORDER!**

A huge step forward in toothbrush packaging! You've seen this 'Streamline' case already. Made of shining transparent plastic, it's an outstandingly attractive pack for display. And it's a very practical way of keeping a toilet article absolutely safe from dust or infection. This 'Streamline' case is going to be a big added attraction for Halex brushes. Make the most of its great display value!

★ HEAVY ADVERTISING

Bold, compelling advertisements announce the Halex 'Streamline' case in the *Daily Mirror*, the *Daily Sketch*, *Picture Post* and other big-circulation national papers.

★ NEW DISPLAYS

They'll be looking for the 'Streamline' case in *your* shop. Striking new display material will help you show it off to the best advantage.

HALEX LIMITED • HALE END • LONDON • E.4



TELEGRAMS:
BOLSOKEMIC, FINSPARK, LONDON.



TELEPHONE:
STAMFORD HILL 6671 (4 LINES)

INTERNATIONAL CHEMICAL COMPANY LIMITED

MANUFACTURING CHEMISTS

BRAYDON ROAD, LONDON, N. 16.

LIST OF PRODUCTS

	Minimum Selling Price	Trade Price per doz.
'Alkia' Saltrates Powder.. ..	3/3	31/-
'Ban-O-Dor'	1/9	14/-
'Bisurated' Magnesia Powder ..	1/3	12/-
" " " ..	2/6	24/-
" " " (Mint flavour) ..	1/3	12/-
" " " " ..	2/6	24/-
" " Tablets ..	6d.	4/9
" " " ..	1/3	12/-
" " " ..	2/6	24/-
'Bisuroids' Laxative Tablets ..	1/3	12/-
" " " ..	2/-	19/2
'Bitrate' brand Concentrated Cough Cure	1/6	13/6
'Freezone' brand Corn Remover ..	1/3	11/3
" Corn Rings	9d.	6/9
'Kal Sel'	1/11	18/4
'Lavona' Hair Tonic (Blue label) ..	2/3	20/3
" " " " " ..	3/6	31/6
" " " (Red label) ..	2/3	20/3
" Shampoo Powders ..	3d.	2/-
'Limestone' Phosphate	2/-	18/-
'Nemakol' Nasal Compound ..	1/6	13/6
'Nemolin' Ointment	3/-	27/-
'Pineate' Honey Cough Syrup ..	1/6	13/6
" Throat Tablets.. ..	1/3	11/3
" Inhalant	1/-	9/-
'Reudel' Bath Salts	1/6	13/6
" " "	2/6	22/6
" " Cubes	2d.	1/6
'Anne French' Cleansing Milk ..	1/6	12/-
" " "	3/6	28/-

CO-OPERATION ALLOWANCES

5% On £2 parcel or over	7½% On £5 parcel or over	10% On £10 parcel or over
-------------------------------	--------------------------------	---------------------------------

HAVING provided concrete, gas-proof shelters, which afford adequate protection for the whole of our staff, *we are carrying on business as usual at Braydon Road, London, N.16.*

As a further precaution our usual stocks have been considerably increased and *all orders can be executed promptly.*

Transport difficulties and limitations may, of course, cause delay in delivery; and for this reason we advise you, in your own interests, to keep ample stocks.

As our Representatives will be unable to call on you as regularly as in normal times, please be good enough to *send your orders direct to Braydon Road, London, N.16.*

A. J. F. Somley.

Managing Director

September, 1939.

Crookes bring the MASS MARKET into your shop with Nation-wide advertising



Are you ready for Crookes' nation-wide advertising campaign? It is planned to increase *your* sales. Starting in September our advertisements will appear in all the leading newspapers and women's magazines—you are bound to benefit.

Now is the time for you to link up with this advertising. Write to-day for full details including bonus terms and special displays—of all Crookes' products.

Write for full particulars to

THE CROOKES LABORATORIES
(British Colloids Ltd.)
PARK ROYAL, LONDON, N.W.10.

CROOKES' ADVERTISEMENTS
REGULARLY APPEAR
in

Daily Mail
Daily Express
Daily Herald
Radio Times
Punch

News Chronicle
Daily Mirror
Daily Sketch
The Times
Daily Telegraph

Wife & Home
The People's Friend
Parents
Woman's Illustrated
My Weekly
Woman's Pictorial
Home Journal

Nursery World
Mother
Lady's Companion
Woman
Woman's Sphere
Home Notes
Woman's Own

AND IN **30** PROVINCIAL PAPERS

NOTICE

DURING the War we will exert every effort to maintain delivery and service. We are not evacuating, and our Head Office will be as always, Hackney, London, E.8.

Our three factories are carrying on, and in the event of communication with Hackney being temporarily suspended, enquiries should be addressed to W. J. Bush & Co., Limited, The Distillery, Mitcham, Surrey, *phone Mitcham 4058*, failing that, and in any case for our customers in the North, to W. J. Bush & Co., Limited, Widnes, Lancs., *phone Widnes 2671*.

We wish the best of luck to all our friends in the trade.

W. J. BUSH & CO., LIMITED

ASH GROVE, HACKNEY, LONDON, E.8¹

Telephone: CLISSOLD 0461-5

Telegrams: "TANGERINE, LONDON"

BUSH SERVICE STILL COVERS THE WORLD!

INDEX TO ADVERTISERS

Abietans Manufacturing Co., Ltd. (Toilet Preparations)	11	Campbell, J. D. (Nicotine Insecticides) Leader Page	Freeman, W., & Co., Ltd. (Suba-Seal Closure)	16	
Acton Pill & Tablet Co., Ltd. (Back and Kidney Pills, &c.)	16	Cannon Rubber Manufacturers, Ltd. (Hot Water Bottles)	iii	Freudentheil, Smith & Co. (Lofoten Cod Liver Oil)	ii
Aerograph Co., Ltd. (DeVilbiss Atomisers)	xiv	Carillon Press, Ltd. (Labels)	30	Gardner, W., & Sons (Glos.), Ltd. (Machinery)	16
Allen, Stafford, & Sons, Ltd. (Gum Tragacanth)	6	Castle Huskisson, Ltd. (Tablets, &c.)....	iii	Halex, Ltd. (Tooth Brushes)	1
Armour Laboratories, The (Calf's Foot Jelly)	13	Clay & Abraham, Ltd. (Iodine "Pen," &c.)	xii	Hampden Residential Club	Col. Supp.
Armstrong Cork Co., Ltd. (Corks).....	x	Continental Laboratories, Ltd. (Taxol)	x	Harrison, A., & Sons, Ltd. (Printers)	36
Association of Manfg. Chemists, Ltd. Col. Supp.		Cooper, Son & Co., Ltd. (Cachets)	ii	Howards & Sons, Ltd. (Camphor)	i
Barker, R., & Son, Ltd. (Infants' Pre- servative)	x	Coty (England), Ltd. (Christmas Coffrets)	27	International Chemical Co., Ltd. (Announcement)	2
Bayer Products, Ltd. (Announcement)..	14	Cox, A. H., & Co., Ltd. (Winter Sellers)	8	Jacquesil Fabrics, Ltd. ('Dawn' Face Cloths)	32
Bell, John, Hills & Lucas, Ltd. (Tonic Phosphates)	Leader Page	Cresswell Bros. (Sponges)	29	Jones & Co. (Methylators), Ltd. (Methylated Spirit)	5
Blackie, R. (Denfix)	10	Crookes Laboratories (Halibut Liver Oil, &c.)	3	Kay Bros., Ltd. (Linseed Compound) Leader Page	
Blythe, W., & Co., Ltd. (Epsom Salts, &c.)	ii	Cumming, J. W., & Son (Carrageen Moss)	16	Lanalol, Ltd. (Hair Food)	11
British Felsol Co., Ltd. (Asthma Remedy)	Leader Page	Cussons, Sons & Co., Ltd. (Christmas Gifts).....	20	Lawrence, G. H., Ltd. (Razor Blades, &c.)	34
British Optical Institute, Ltd.	Leader Page	Duke Pharmaceutical Co., Ltd. (Anti- septic Self-Adhesive Bandage)	12	Lax & Shaw, Ltd. (Bottles)	26
Brook, Parker & Co., Ltd. (Tablets, Pills, &c.)	ii	Dunlop Rubber Co., Ltd. (Hot Water Bottles)	Front Cover	London Capsule Co. ("Adaptocaps")	30
Burrough, James, Ltd. (Alcohol for Perfumery)	Leader Page	Ebe Products, Ltd. (Bath Powders, &c.)	17		
Burroughs Wellcome & Co. ("Hazel- ine" Snow," &c.)	37	Eucriyl, Ltd. (Dentifrice, &c.)	31		
Bush, W J., & Co., Ltd. (Announcement)	4	Evans, Adlard & Co., Ltd. (Filter Papers)	iv		
		Everett, S. & R. J., & Co., Ltd. (Hypo- dermic Needles, &c.)	12		

[Continued overleaf]



JONES

FINEST QUALITY

METHYLATED

SPIRIT

ALL STRENGTHS
IN STOCK.

PROMPT DELIV-
ERIES IN CASKS,
DRUMS OR BY
TANK LORRY.

Send your enquiries to :—

JONES & CO. (Methylators) LTD., Bow, London, E.3

TELEPHONE : ADVANCE 3210

TELEGRAMS : METHSPIRIT, LONDON."

INDEX—contd.

London College of Pharmacy.....	10	Parke, Davis & Co. (Euthymol Tooth Paste)	Cover ii	Steel, Adams & Co. (Labels)	32
Lysol, Ltd. (Marshall's Lysol).....	xiii	Perken, Sou & Co., Ltd. (Clinical Thermometers)	12	Sterns, Ltd. (Paraffinum Liquidum B.P.)	xiv
McClure, Young & Co., Ltd. (Packed Goods)	13	Pharmaceutical Specialities (May & Baker), Ltd. (Dagenan)	ix	Stevenson, H. E., & Co., Ltd. (Concentrated Extracts)	viii
Maund, F., & Berg, E., Ltd. (Show-cases)	16	Pifco, Ltd. (Electric Night Lamps).....	30	Sturge, J. & E., Ltd. (Citric Acid).....	iv
Midgley & Parkinson, Ltd. (Marrsona)	Leader Page	Potter & Clarke, Ltd. (Christmas Gifts, &c.)	15, 18, 19	Sumner, R., & Co., Ltd. (Christmas Gifts)	28
Mosans Quinine Pessaries	16	Potter & Moore, Ltd. (Christmas Coffrets)	22, 23	Surgical Hosiery Co., Ltd. (Elastic Hosiery)	12
Mousley, F. ('Beaverpuf')	16	Proprietary Articles Trade Association	x	Swales, T. (Clinical Thermometers)	12
Mundet Cork Products, Ltd. (Corks and Stoppers)	10	Reliance Rubber Co., Ltd. (Christmas Packs)	35	Thompson & Capper Wholesale, Ltd. (Speeko Electric Shaver)	21
Myers, L.	Col. Supp.	Riddell, Francis, Ltd. ("Pag" Inhaler) ..	xii	Town Talk Polish Co. (Liquid Silver Polish)	iv
Mysore, Trade Commissioner for, in London (Sandalwood Oil)	ii	Roberts' Patent Filling Machine Co., Ltd.	16	Treble & Co. (Shopfittings).....	16
Nagase, D., & Co., Ltd. (Chemicals, &c.) ..	iii	Roche Products, Ltd. (Announcement) ..	vii	Veno Drug Co., Ltd. (Veno Products)....	7
National Cash Register Co., Ltd. (Cash Registers)	32	Roura & Forgas (Quicksilver).....	vi	Vinolia Co., Ltd. (Christmas Gifts)	24
Nestlé, C., & Co., Ltd. (Nestol, &c.)	11	Rudduck & Co. (Shopfittings)	Col. Supp.	Vosemar, Ltd. (Vosene).....	33
Newball & Mason, Ltd. (Extract of Herbs, &c.)	16	Scurr, C. A. (Optical Tuition) ..	Leader Page	Wagner, R. V. (Dry Bottle Caps).....	10
Organon Laboratories, Ltd. (Announcement)	9	Sharpe & Dohme, Ltd. ('Suerets,' &c.) ..	Cover iv	Warriek Bros., Ltd. (Pastilles, &c.).....	38
Ormerod Engineers, Ltd. (Q.P. Emulsifier)	34	Singha, The Dr., Co., Ltd. (Asthma Tablets)	viii	Whiffen & Sons, Ltd. (Salicin).....	Cover iii
		Smith, T. & H., Ltd. (Alkaloids)	vi	Wigglesworth, Ltd.	xi
		Solport Bros., Ltd. (Christmas Gifts)	25	Wilson & Mansfield, Ltd. (Eucalyptus Oil, &c.).....	vi
		Solvent Products, Ltd. (Solco Spirit)	viii	Zimmermann, C., & Co., Ltd. (Chemicals) ..	v

StaffAllens

POWDERED GUM

TRAGACANTH

SUITABLE QUALITIES FOR
ALL PURPOSES

STAFFORD ALLEN & SONS LTD.

MANUFACTURING CHEMISTS

20-42 WHARF ROAD, LONDON, N.1

Telephone: CLERKENWELL 1000 (7 Lines).

Telegrams: STAFALENS, NORDO, LONDON

Invest in the best

for a steady stream of profits . . .



Cast your eyes round your shelves! Certain lines you regard as sure sellers. Among your 'sure fire' lines are the four grand VENO products: Venos brand Lightning Cough Cure, Phensic brand, Germolene brand Ointment and Dr. Cassell's brand Tablets. Where would you be without reliable lines like these? They are real profit makers, the unfailing business builders. May we send you latest show material for your counter and window? Send us a card now.

Address :

- VENOS COUGH CURE
- Dr. CASSELL'S TABLETS
- GERMOLENE OINTMENT
- PHENSIC

VENO DRUG CO. LTD.
CHESTER ROAD · MANCHESTER · 16

STAR SELLERS

FOR THE WINTER



1. Nasal Oil, Ephedrine,

$\frac{1}{2}$ oz. Amber Bottle with dropper @ 7/6 per dozen

1 oz. „ „ „ „ @ 10/6 „ „

2. Nazalgen Brand, Inhalant,

7 drachm Bottles cartoned . @ 8/6 „ „

3. Nazalgen Brand, Nasal Balm,

Nozzled Tubes, cartoned . @ 6/6 „ „

4. Chest Vapour Rub

1 oz. Pots, cartoned . . @ 4/3 „ „

Tins, Zim Brand . . . @ 3/4 „ „

5. Lightning Inhalant

Sprinkler Bottles, Small . . @ 3/9 „ „

„ „ „ Large . . @ 6/- „ „

ALL PRICES ARE SUBJECT TO
MARKET FLUCTUATION

ARTHUR H. COX & CO. LTD. BRIGHTON

ANNOUNCEMENT



ORGANON LABORATORIES LTD.

OF 77 NEWMAN STREET, LONDON, W.1

IS A BRITISH COMPANY

supplying the hormone
products of

N. V. ORGANON
OF OSS. HOLLAND

a company which is
and always has been
entirely Dutch

It is regretted that the supply of samples is temporarily suspended.



EXCELLENT PROFITS AND A STEADY INCREASE IN SALES

Advice to your customers—

You can speak in comfort
You can eat in comfort
You can sleep in comfort
Your denture is fixed

DENFIX

MADE BY

ROBERT BLACKIE

TELEPHONES : RODNEY 3874
(4 lines)

MELON ROAD - - - LONDON, S.E.15

AND — SPUN OINTMENTS — OF COURSE

WAGNER'S DRY BOTTLE CAPS
BEST IN QUALITY & APPEARANCE
PROMPT DELIVERIES

Self-Fixing
R. V. WAGNER
33 BROOKE ST., LONDON, E.C.1 Tel. Holborn 5690

TAPERED, PYRAMID, DOMED AND
FLANGE **CORKS**
COMPOSITION AND BAKELITE
STOPPERS

THE MOST COMPETITIVE MANUFACTURERS IN
THIS COUNTRY

MUNDET CORK PRODUCTS, LTD.
20/21 BERMONDSEY SQUARE, LONDON, S.E.1

Telegrams: MUNDETCOMP, BERM, LONDON

Telephone: HOP 2043-6

LONDON COLLEGE OF PHARMACY

C. W. GOSLING, Ph.C.

Principal: IRVINE G. RANKIN, B.Sc., Ph.C.

NEXT SESSION OPENS AS PLANNED ON OCTOBER 4th FOR 9 MONTHS PS.,
9 MONTHS C. & D. COURSES. REVISION COURSES IN ALL SUBJECTS

The Training of Pharmacists is work of National Importance and therefore, in accordance with advice given by the Prime Minister in his speech on Sept. 3rd, the L.C.P. will continue as usual. The college is not in a danger area, being situated in S.W. London, but safety precautions have been taken in form of a basement shelter. The college is near the tube station and there is ample accommodation for students wishing to reside in the vicinity. The London College is the only college in London offering a 9 months C. & D. course. Please apply early.

361 CLAPHAM ROAD, S.W.9

Brixton 2161

OUTSTANDING NATIONALLY ADVERTISED

NESTLÉ

ALURA

"Alura makes Glamour Curls!" That is the theme of the current national advertising scheme that will increase the demand for 'Alura.' This famous colour wave set is made in five colours—one for every shade of hair and Natural for white or bleached hair.

1/- per large bottle. 8/- per doz. 6 doz. lots at 7/9. For Saloon use—from 3/6 per bottle. Beautiful containers free.

PRODUCTS

NESTOL

You know that the 3/6 Nestol pack has been bought regularly by tens of thousands of young mothers for over 20 years. From now on, still more thousands are going to buy Nestol, in ready-mixed form to retail at 1/9. 3/6 size—28/- per doz. (concentrated form). 1/9 Tubes—14/- per doz. (ready for use).

COLORINSE

Hair Beauty Outfit

This is a complete outfit containing (1) the famous Colorfoam Shampoo, which not only cleanses the hair, but gives it a flower like fragrance and keeps it healthy. (2) 'Colorinse' which perfects the shade as it rinses and makes a 'perm' last longer. There is a Colorinse outfit to match every shade of hair.

Retail price 6d. Trade price—4/- per doz.

Nestlé advertising is now appearing in over 70 publications having a combined circulation of over 24 million copies! The scheme includes 8 National Morning and Evening Newspapers, 20 National Weekly publications, 12 National Monthly publications and over 30 Provincial Newspapers.

C. NESTLÉ & CO., LTD.



THE ORIGINATORS

(Dept. C.D.1) 465 Holloway Road, London, N.7

Telephone - - - ARChway 1184

NM.6

Flaroma

CONCENTRATED

PINE BATH ESSENCE



ALSO GARDENIA, ROSE GERANIUM,
ORANGE FLOWERS, CARNATION,
COLOGNE, LAVENDER

1 oz..... 1/-..... Per Doz. 8/-
2 „..... 1/6..... „ „ 12/-
4 „..... 2/6..... „ „ 20/-
8 „..... 3/9..... „ „ 30/-

'ALPID' PINE BATH CRYSTALS 2/6..... Per Doz. 20/-

ALSO LARGE RANGE OF GIFTS IN TALCUM POWDER,
BATH SALTS, TOILET WATERS, ETC., PACKED IN VERY
ATTRACTIVE HAND DECORATED CONTAINERS.

Illustrations and full particulars gladly sent on request.

From Wholesalers or direct

The ABIETSAN Mfg. Co. Ltd.,
Concordia Works, Carmichael Rd., S.E.25

Phone: Addiscombe 2261-2-3

THE NATURAL HAIR FOOD FOR ALL

LANALOL

- IT ● NOURISHES THE ROOTS
● PROMOTES RICHER GROWTH
● ELIMINATES DANDRUFF
● PREVENTS PREMATURE
BALDNESS
● PROVES THE PERFECT
DAILY DRESSING

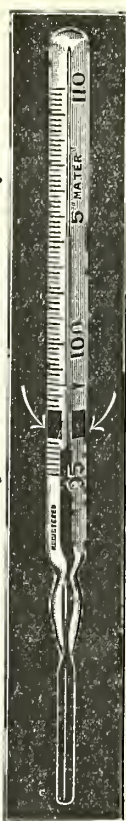
Lanalol No. 1 With Oil (yellow label),
No. 2 Without Oil (green label), 2/6
per bottle. Recommend and sell also
Lanalol Shampoo, the Liquid Soap de
Luxe, 2/6 per bottle.

P.A.T.A. Terms from
all Wholesale Houses

Showcards from Lanalol Ltd.,
57 Holborn Viaduct, London, E.C.1



A LINE YOU CAN RECOMMEND WITH CONFIDENCE



THE "MATER"

CLINICAL REGD.
The position of the Mercury column is at once perfectly plain. Red markings above 99.4.

**ALL TYPES OF
CLINICAL
AND OTHER
THERMOMETERS**

**PERKEN, SON
& CO. LTD.**

(ESTABLISHED 1852)

Price List on Application:

**8 HATTON GARDEN,
LONDON, E.C.1**

Telephone: 0724 Holborn

Telegrams: "Optimus, Smith, London"

"SURCO"

RELIABLE

ELASTIC HOSIERY

SEAMED & SEAMLESS

For special garments to
measure we maintain a 24
hour service.

:: **BODY BELTS** ::
TRUSSES :: **SUNDRIES**

Permit us to quote you

SURGICAL HOSIERY CO. LTD.

Russell Street :: NOTTINGHAM

Telephone No. 75903.

Telegrams: SURGICAL NOTTM.

CLINICAL THERMOMETERS

30-sec. Lens front, long bulb.

- Each in metal case.
- Maker's certificate with each.
- British made.

Special price—1-doz. lots 10/6 doz. } Any quantity post
3 " " 9/6 " } paid on receipt
6 " " 9/- " } of remittance

THOMAS SWALES

ST. STEPHEN'S ROAD, LEEDS, 9

"SWALES FOR SUNDRIES"

*When customers
ask for bandages, they mean—*

PLASTRIP

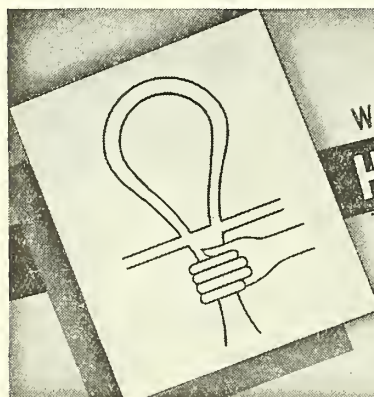
THE MODERN ANTISEPTIC
SELF-ADHESIVE BANDAGE
SHOWING 19/- PROFIT ON A 21/- OUTLAY

Made in widths of 1, 2, and 3 inches by 4
yards, retailing at 3d., 6d., and 9d. respec-
tively. Larger sizes for special work. From
your usual wholesaler. For Export Prices
and further details apply to:



DUKE PHARMACEUTICAL Co., Ltd.

123 DUKE ST., LIVERPOOL, 1



WHOLESALE & EXPORT ONLY
HYPODERMIC NEEDLES
OF ALL DESCRIPTIONS

**S.&R.J.
EVERETT
& CO., LTD.**

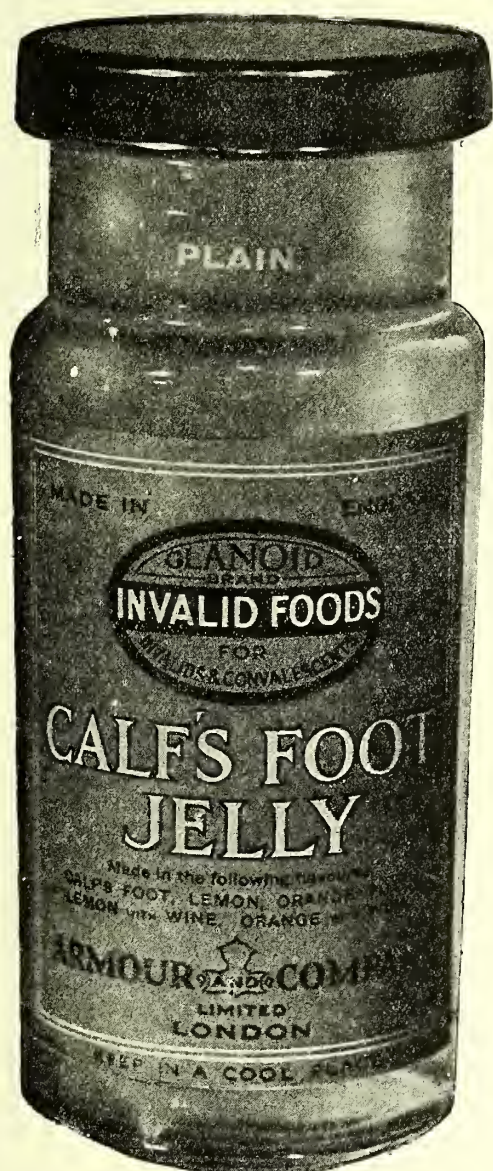
Original makers of
STAINLESS STEEL NEEDLES

OUR SPECIALITIES INCLUDE THE
ORIGINAL RECORD FITTING AND N.H.I.
SPECIFICATION HYPODERMIC NEEDLES.

Also the Famous 'SUMMIT' hypodermic
needles now ALL BRITISH MADE.

Comprehensive catalogue sent on request.
Telephone: Thornton Heath 3252-3.

**939, LONDON ROAD,
THORNTON HEATH, LONDON, S.W.16**



SOLD BY CHEMISTS ONLY

RETAIL PRICE 1/6 per JAR

CHEMISTS' PRICE 10/- doz.

Send for sample and details of bonus terms to:

THE
Armour Laboratories
(ARMOUR AND COMPANY LTD.)

ARMOUR HOUSE • ST. MARTIN'S-LE-GRAND • LONDON • E.C.1

ROAD UP!



"Road up" usually follows an admonition to "Go Slow"... a policy, by the way, that seems to have become almost an obsession throughout the Country during these ticklish times. Deliberately to "Go Slow" can be a dangerous thing in business—ground may be lost, never to be made up.



Slack periods are a challenge to Salesmanship... the go-ahead retailer marshals all his forces—window displays, leaflets, special offers, etc.—to maintain and increase normal trading returns. This is where the efficient **McCLURE, YOUNG AND CO. LTD.** organisation can be of immense help to retailers during these times...



Because our packed goods are of a high quality, popularly priced to yield a reasonable ratio of profit, and yet giving the stockist an advantage in value over his competitors. Our packed lines have become famous as a "tonic for flagging sales"... to stock and sell them means you are offering the finest values in the trade to-day.



of course!

McCLURE, YOUNG & CO. LTD.

MANUFACTURING CHEMISTS

90 STANDARD ROAD
LONDON, N.W.10

PHONES: WILLESDEN 3733-4



ANNOUNCEMENT

Messrs. Bayer Products Ltd. wish to announce that during the War they will continue to trade from Africa House, Kingsway, London.

Stocks of their products have been warehoused in various parts of the country. The present stocks should satisfy normal requirements for a year. Arrangements have been made to obtain further supplies manufactured in the U.S.A.

Bayer Products Ltd. is a registered British company and is now neither controlled by nor in communication with any company in Germany.

NOTE: Limitation of Supplies

In accordance with an Order under the Defence Regulations (1939, No. 55) the Minister of Health imposes restrictions on the sale of certain preparations regarded as of national importance. These include—

'AVERTIN'	'PROMINAL'
'EVIPAN' SODIUM	'SALYRGAN'
'LUMINAL'	'PER-ABRODIL'
'PRONTOSIL'	'PLASMOQUINE'
'CAMPOLON'	'ATEBRIN'

The Ministry has licensed Bayer Products Ltd. to issue supplies of these preparations to regular customers in "reasonable amounts having regard to their previous requirements."

Abnormal demands have in all cases to be referred to the Ministry via Bayer Products Ltd. Clients will assist by restricting their orders to normal requirements.

BAYER PRODUCTS LTD.,
AFRICA HOUSE, KINGSWAY, LONDON, W.C.2




POTTER & CLARKE Ltd.

Write a letter to their customers...

★ DURING HOSTILITIES THE SAME
SERVICE WILL BE CONTINUED

CONTRACTORS TO ADMIRALTY, WAR OFFICE, AIR MINISTRY, O.P.O. L.C.C. INDIA OFFICE
CROWN AGENTS FOR THE COLONIES ETC.
ALL COMMUNICATIONS TO BE ADDRESSED TO THE FIRM AND NOT TO INDIVIDUALS

POTTER & CLARKE LIMITED
Drug Merchants, Manufacturing Chemists
Growers & Importers of Herbs, Roots, Barks etc.
60 62 & 64 ARTILLERY LANE
LONDON, E.1.

TRADE MARK

TELEGRAMS: HOREHOUND, LONDON
HOREHOUND, MANCHESTER
AND BRISTOL & BIRMINGHAM

TELEPHONE: LONDON BISHOPSGATE 4751
MANCHESTER BLACKFRIARS 6704
MANCHESTER 77 DARTMOUTH ST.
MANCHESTER, 4

YOUR REF
OUR REF

ECW/MOC.

7th September, 1939

A LETTER TO OUR CUSTOMERS

Having regard to the recent outbreak of hostilities and the consequent upsetting of business in general, we would impress on our customers that every effort is being made to facilitate the despatch of their esteemed orders, so that they may be put to as little inconvenience as possible.

We are sure it is appreciated that at the moment orders from the Government and the various Services must take preference, with the consequence that some delay may be occasioned. We would like to make it quite clear, however, that this delay is only temporary and that when things have settled down to a normal routine we hope to continue with our usual deliveries.

Besides the above we have deemed it advisable to move some of our departments to places where the staff will have adequate protection and thus be able to carry on in the usual way without fear of interruption. This evacuation has of course also been taking place during the busy period, but we hope to get it completed within the next few days.

Finally, we would like to express our thanks to customers for the patience and understanding which they have shown during this very trying period, and to assure them that every effort will be made during the forthcoming months to give them a service that will meet all requirements.

Yours faithfully,
Potter & Clarke Ltd.

All Other
Orders to—

ARTILLERY LANE—as usual

ALTERATIONS INCLUDE THE REMOVAL
OF THE WAITING COUNTER & CASH SALES
DEPT. TO FAIRCLOUGH STREET, E.1

Scrupulously mixes scruples

This little hand-driven mixer is the perfect machine for the Chemist and Druggist.

It will give perfect mixing of a few scruples of one ingredient with pounds of several others, and it will do so with surprising speed. Being very easily cleaned it can be used for many different mixes each day It is the



GARDNER Patent 'Rapid' MIXER FOR HAND USE

WM. GARDNER & SONS (GLOUCESTER) LTD.

BRISTOL ROAD, GLOUCESTER
Telephone : 2288 (3 lines) Telegrams : "Gardner, Gloucester"
LONDON : 19 Gray's Inn Chambers, 20 High Holborn, W.C.1
Telephone : Chancery 7347



The World-famous
'BEAVERPUF'
Is obtainable direct from the maker :—
FRANK MOUSLEY
Wilderness Works, Derby Road, S.W.14
Phone : PROspect 4547 & 4828
... OR FROM ANY WHOLESALER

**Good Profits
Quick Sales**

**MASON'S EXTRACT
OF HERBS**

Mason's Extract of Herbs
91. bottle, 7/3 per doz. (sub.)
Mason's Dried Yeast
24. Capsule, packed in
1 gross Display Box, 18/- per
gross (subject)

An old favourite for 75 years and an entirely new line
MASON'S DRIED YEAST
both used in the home brewing of Mason's Sparkling Herb Beer, the thirst-quenching, healthful drink recommended by Mrs. D. D. Cottingham Taylor. Write for trade terms
NEWBALL & MASON LTD., NOTTINGHAM

TRADE ENQUIRIES INVITED FOR—

CARRAGEEN MOSS

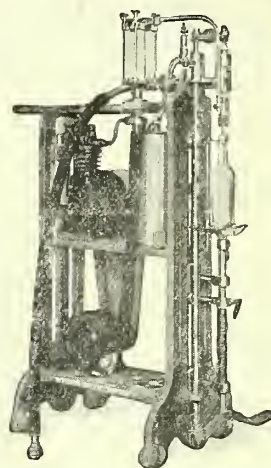
ALL GRADES
INCLUDING POWDER

J. W. CUMMING & SON LTD., 5 TITHEBARN ST., LIVERPOOL 2.
Phone : BANK 4488 Grams : "CARMOSS" Liverpool

MOSANS Non-Greasy, Odourless QUININE PESSARIES

15/- per doz. boxes
Obtainable from all Wholesalers
OR
MOSANS LABORATORIES, S.E.27

ROBERTS' PATENT "LEO" VACUUM FILLER



for Glass, Stone,
and Tin. Bottles.
Fills all sizes from
drachm to quart—
long, short or
sprinkler neck.

Clean and Rapid
No Over Filling
Broken Bottles
Rejected
Easy to Clean
Self Rinsing

WRITE FOR
PARTICULARS

Roberts' Patent Filling Machine

Company Limited
BOLTON, LANCASHIRE

Makers of every description of Bottle Filling and Shallow
Jar and Tin Filling Machine for the Chemists' use

ALL RIGHTS RESERVED

THE PERFECT CLOSURE FOR ALL TYPES OF CONTAINERS

AIRTIGHT

SUBA-SEAL

UNBREAKABLE

REGD TRADE MARK

THE ANSWER TO THE STOPPER PROBLEM

WILLIAM FREEMAN
& COMPANY LIMITED
GRAMS : SUBA-SEAL LEEDS

"Britannia House"
Wellington St., Leeds 1
TELEPHONE : 24746

"SPECIAL" Back & Kidney Pills
"URICURE" TABLETS
"NEVROIDS" FOR WOMEN
"MANOIDS" FOR MEN

From all
Sundries Houses
or Post Free from—
The
Acton Pill & Tablet Co., Ltd.,
Ash Vale, Surrey.

SHOPFRONTS

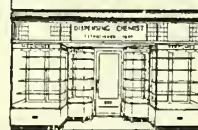
ESTIMATES FREE

Write or 'Phone for Representative

F. MAUND & E. BERG
(Showcases) LTD.

175/9 OLD ST., LONDON, E.C.1
'Phone : Clerkenwell 1782/3

HARVEY



TREBLES

SHOP FITTERS
SHOP FRONT
BUILDERS

PHARMACY FITTERS for over a Century
549a Lea Bridge Road, Leyton, London, E.10

for Christmas



THE many lines produced by **EBE** are simply "made" for Xmas. These attractive and original packed designs make them easy sellers. In fact, you need only display **EBE** lines and they sell themselves.

There is an **EBE** gift for every purse and every person—from the sixpenny Silver Sachet in its Christmas envelope, to the more expensive sizes of Bath Powder, Bath Flowers and Bath Milk, which run from two shillings to sixty shillings.

No chances are taken when you stock up on **EBE** products . . . ideal as Xmas gifts, and yet lively sellers the whole year round.

The original and tasteful packs—characteristic of the **EBE** range—provide a colourful and sales-compelling display. Show **EBE** on your display cabinets—they'll sell themselves.

PRICES—Bath Powders 2/-. Bath Confetti 3/6, 5/9, 10/6. Bath Flowers 2/-. 3/9, 5/-. 10/6. Bath Milk 2/6, 4/6, 6/6, 10/6. Bath Powders (in transparent Tubs) 2/6, 6/6; (in Bowls) 15/6; (in Small Jars) 4/6, 8/-. 15/6; (in Large Jars) 30/-. 2/6 Guest Box. Dusting Powder 3/6.

EBE PRODUCTS LTD.
40 Wellclose Square
—London, E.1—

Telephone - - - ROYal 7156 & 7484

A certain best seller—**EBE TURTLE OIL SOAP**, packed in attractive boxes containing 3 tablets of different colour and perfume. 3/- PER BOX or 1/- PER TABLET.

Christmas

ARNAUD'S

The Man's Box

A welcome present for every gentleman

21/- doz.

"The Speedwell Jar"

filled with the choicest Pot Pourri

21/- doz.



"The Empire"

21/- doz.



"O-So-Sweet"

8/6 doz.



These are all
Seasonable Gifts
making a strong
appeal to every
class of customer.
**DISPLAY THEM
AND WATCH
HOW QUICKLY
THEY SELL!**

AN ALL BRITISH PRODUCTION

POTTER &

60-64 ARTILLERY LANE, LONDON, E.1.

*Phone : B1Shopsgate 4761 (6 lines)

*Grams : "Horehound, Phone, London"

Gifts to please all

Pot Pourri

Beauty Box

A present for a dainty lady

21/- doz.



"Cottage Rose"

33/- doz.



"Margaret Rose"

A delightful present for the boudoir

30/- doz.

AN ALL BRITISH PRODUCTION

CLARKE LTD.

77, DANTZIC STREET, MANCHESTER, 4

'Phone: BLACKfriars 8734

'Grams: "Horehound, Manchester"

Lovely Gifts of Pottery Ware and Coffrets by Duval



Replica of Persian
Vase



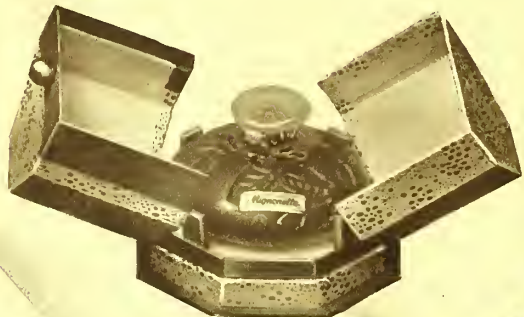
Biscuit Barrel



Floral Jug



Tall Floral Jug



"Duval" Perfume

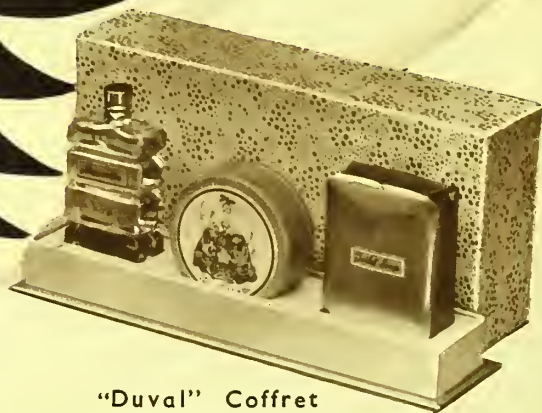


Boudoir Powder Puff
and Beauty Soap

Write for Price List of
extensive range of Hand-
painted Pottery Ware
and Coffrets, all beauti-
fully presented, at prices
ranging from 1/- to 7/6



Three Tablets of Rose
Beauty Soap



"Duval" Coffret
Perfume, Face Pow-
der, Toilet Soap

CUSSONS & SONS, LTD., KERSAL VALE, MANCHESTER, 7

The Ideal Gift

a
SPEEKO

Electric
DRY SHAVER

In addition to many other advantages, the "SPEEKO" is the only dry shaver with voltage control on the shaver itself for 100-250 volts A.C. or D.C.

Ready for use wherever you go!

The "Speeko" Electric Shaver marks the greatest advance yet made in these appliances.

A switch on the "Speeko" itself controls the voltage so that the Shaver can be used with any voltage 100-250 A.C. or D.C.

No resistance is required.

This unique feature is a most important selling point, particularly with people travelling from place to place, and better still it has been achieved without any advance in price. The "Speeko" is the only Shaver with this exclusive feature. This plus the other special features puts "Speeko" well ahead of all rivals.

IN IVORY WHITE OR BLACK. EACH SHAVER COMPLETE IN ZIP FASTENER CASE.

Christmas is the greatest selling opportunity of the year. Link up with the Special Advertising for "Speeko" in "The Humorist," "Illustrated London News," "Tatler," "Country Life," etc. Please write for the new Showcards, Counter Leaflets, etc. now available.

Retail Price **£3.3.0.** A MINIMUM PROFIT OF 21/- ON EVERY SALE!

THOMPSON & CAPPER WHOLESALE LTD.
5 SPEKE HALL ROAD, LIVERPOOL, 19

C H R I S T M A S

For MEN

D.83

D.80

D.70

D.82

D.73

- MEN'S SETS**
- D 70. Containing Shaving Stick and Brilliantine 2/6
 - D 73. Containing Shaving Bowl and Brush 3/9
 - D 80. Containing Shaving Bowl, Brilliantine and Brush 5/-
 - D 82. Containing Shaving Bowl, Brilliantine and Brush 7/6
 - D 83. Containing Shaving Bowl, Brilliantine, Talcum Powder, Fixadene, After Shave Lotion and Brush 10/6

A few examples of
our 1939 Sets are
here illustrated.

We cordially invite
inspection of the full
range at our various
Stock Rooms through-
out the country.

C O F F R E T S



For LADIES

LADIES' SETS

- D 9. Containing Lavender Water and Powder-1/6
 Cream 1/11
 D 16. Containing Lavender Water, Talcum 2/6
 Cream 3/6
 D 29. Containing Lavender Water, Talcum 3/6
 Powder and Bath Salt Tablets 3/9
 D 39. Containing Lavender Water and Smelling 5/-
 Powder and Powder-Cream 7/6
 D 42. Containing Lavender Water, Talcum 10/6
 Salts
 D 55. Containing Lavender Water and Spray
 Powder and Bath Crystals
 D 60. Containing Lavender Water, Talcum
 D 66. Containing Lavender Water, Talcum
 Powder and Bath Crystals

Something New

7694

9530

7692

8005/6
8025/6

6051

8057 8

5018

9518

6516

9327

7603

9513

9350

7696

9345

8050

8002/3/7
8022/3/8

VINOLIA

Everyone likes to give new and useful presents. That's why Vinolia Gifts are in such demand. This year they will sell better than ever. See our representative's samples and Illustrated List. Details of Santa Claus, Snowman and other novelties on request.

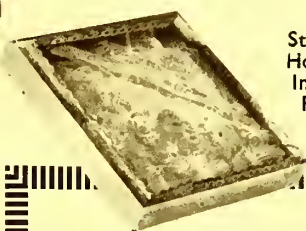
SPECIMENS AND TRADE TERMS ON REQUEST

VINOLIA Co., Ltd., BEBINGTON, Ches. VT182/55

"we shall select from the
NERISSA
range as usual!"



This excellent rigid wire Display Stand is given FREE with good orders for Nerissa Hanky Puffs—ask for particulars.



Style I & II
 Hanky Puff
 Individual
 Packing



G.218D. Transparent Drum of
 6 "Watersprite" Face Cloths.
 G.229X. Gift Pack of 6 ditto.



S.P.12
 "Thistle-
 down"
 Hanky Puff
 on Gift Card

*New Packs -
 New Ideas!*

**HANKY PUFFS
 SHOULDER PUFFS
 FANCIES &
 NOVELTIES**

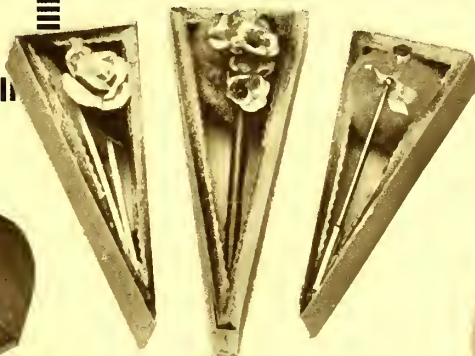
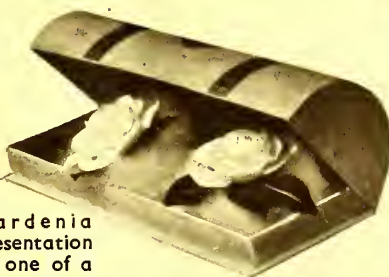


G.217. "Watersprite" Bon-
 Bons—a real novelty.



P.60TD & P.61TD
 Transparent Drums of Flat-
 Tinted Down Puffs—this pack is
 undoubtedly the finest for quick
 selling.

P.1512. Gardenia
 2-piece Presentation
 Set—this is one of a
 very exclusive series.



P.1201T P.1200T P.1204T
 Three attractive styles of
 Shoulder Puffs.

Write for fully illustrated Autumn Price List to—



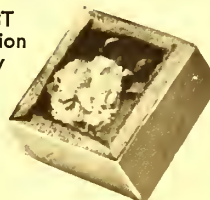
P.1566T
 Rose
 Fancy
 Puff

SOLPORT
BROTHERS LIMITED

184-192 GOSWELL ROAD, LONDON, E.C.1.

Tel. Clerkenwell 2472 (3 lines)

P.1568T
 Carnation
 Fancy
 Puff



Glass containers

*that will enhance your
Christmas Trade*

WHOLESALE AND
EXPORT ONLY



A large variety of moulds
of every conceivable design
is available . . . Customers
own designs executed . . .
May we quote you?

LAX & SHAW LTD.

REG^d OFFICE, ALBERT GLASS WORKS, HUNSLET

'Grams: 'Feeders, Phone Leeds' **LEEDS, 10** Phone: 21568 (2 lines)

3 Factories, Albert, Clarence & Donisthorpe.

LONDON OFFICE, 29 LUDGATE HILL E. C. 4. . . . PHONE CITY 7170

Make **MISS SANTA** your sales mascot this Christmas

CHRISTMAS wouldn't be Christmas without Miss Santa in your window and your shelves being swept clear of Coty Coffrets faster than you can refill them. If hot cakes ever sold as fast as Coty Coffrets, then no wonder they became proverbial. Stack your shelves and counters with these gaily-wrapped Coty gifts. For Coty Coffrets make selling a sinecure.

TELLING THE WORLD

A smashing nation-wide barrage of advertising prepares the way for these Christmas lines, for Coty know well that the finest products deserve the finest and most intensive publicity. Every woman in Britain will be "Coty conscious" weeks before Christmas arrives.

THE GOLDEN PLUMS

The tree of opportunity stands loaded with golden plums. You've only got to shake it. Or, in the more prosaic words of modern commerce, you've only got to cash in on this tidal wave of goodwill by

showing bigger and better Coty displays than ever before.

And above all, give Miss Santa the place of honour in your window. Make Miss Santa your mascot for Christmas 1939.



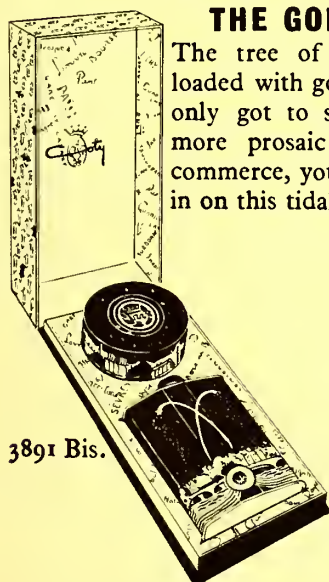
This is one of the special showcards which will be supplied.

3996 Rich red and gold coffret holding L'Aimant perfume and "Air Spun" Powder, Talcum Powder and Soap all perfumed with L'Aimant. **15/6**

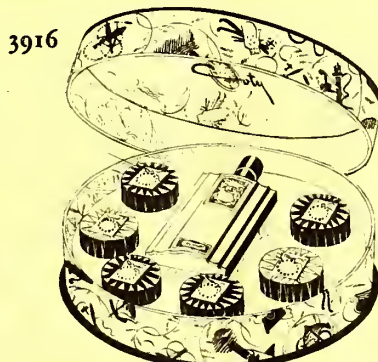
3916 "Sports" design coffret holding one bottle of Eau de Cologne (Cordon Rouge) and six gaily wrapped Bath Tablets. **7/6**

3891 bis. Opulent blue and gold coffret holding "Air Spun" Face Powder, and Talcum Powder perfumed with "Paris." **5/-**

In addition to the gifts shown below, Coty have a very wide variety of Christmas lines at all prices from 3/9 up.



3891 Bis.



3916



3996

COTY (ENGLAND) LTD., 3 STRATFORD PLACE, LONDON, W.1.



FOR YOUR XMAS BUYING

You are cordially invited to visit our re-modelled showrooms, where we are now showing a comprehensive display of PROPRIETARY GIFTS, XMAS GOODS and a complete range of MAW'S SUNDRIES

R. SUMNER & Co. Ltd.,

Manufacturing Chemists

HANOVER STREET, LIVERPOOL.1

Telephone: Royal 6644

THE SPONGE HOUSE

CONTRACTORS TO H.M. GOVERNMENT



LARGEST SPONGE WAREHOUSES IN THE WORLD

with the largest stocks of all Sponges imported direct by us from the Fisheries at lowest prices. Buyers are invited to call and inspect our large and varied stocks, and they will convince themselves that they are dealing in the "CHEAPEST MARKET."

MAKE YOUR PURCHASES OF SPONGES NOW FOR THE COMING SEASON

Having imported the best and cheapest parcels of Honeycomb and Fine Turkey sponges of the new season's Fishery, packed at our establishment at Aegina, Greece, we will offer special lines for chemists' trade at very low prices.

Being desirous of inducing Chemists to make window shows of excellent quality sponges at popular prices, we are offering these lines for the purpose of increasing the sale of Sponges amongst Chemists. It will pay to feature Sponges for the coming season, and we would strongly advise Chemists to select cases from the following list, which would enable them to make a display which would convince the public that the Sponges are being offered cheaper than for some years past.

We are prepared to send any of the cases here offered, rail paid, which could be cellophane wrapped and ticketed if desired.

Chemists are invited to visit our warehouses, where the largest and cheapest stock is on view for their inspection in Honeycomb and Fine Turkey Sponges, in small original cases.

SPECIAL SALE LINES

HONEYCOMB MEDIUM QUALITY TOILET AND BATH SPONGES

Original cases	200 pieces.	Average price per piece	8d. each.
" "	250 "	" " " "	1/- "
" "	200 "	" " " "	1/4 "
" "	160 "	" " " "	1/8 "
" "	140 "	" " " "	2/- "
" "	112 "	" " " "	3/- "
" "	96 "	" " " "	3/6 "
" "	84 "	" " " "	4/- "
" "	72 "	" " " "	4/6 "
" "	60 "	" " " "	5/9 "
" "	45 "	" " " "	6/6 "
" "	30 "	" " " "	7/9 "

CHEAP QUALITY TOILET AND BATH SPONGES

Original cases	200 pieces.	Average price per piece	8d. each.
" "	250 "	" " " "	1/- "
" "	200 "	" " " "	1/6 "
" "	160 "	" " " "	1/9 "
" "	140 "	" " " "	2/6 "
" "	112 "	" " " "	3/3 "
" "	84 "	" " " "	3/9 "
" "	72 "	" " " "	4/6 "
" "	60 "	" " " "	" " "

If desired all sponges can be cellophane wrapped and ticketed.

HALF SHAPE BATH SPONGES (Large for the Money)

Original cases	112 pieces.	Average price per piece	2/6 each.
" "	96 "	" " " "	2/9 "
" "	84 "	" " " "	3/3 "
" "	72 "	" " " "	3/9 "
" "	54 "	" " " "	4/- "
" "	45 "	" " " "	4/6 "

CRESSWELL BROTHERS

Branch of International Sponge Importers, Ltd.

Sponge Importers, Exporters and Merchants, and Chamois Leather Dressers

18 & 19 RED LION SQUARE, LONDON, W.C.1

With the Largest Stocks of all Sponges Imported direct by us from the Fisheries at Lowest Prices
We Invite Competition

NEW additions
to a **MONEY MAKING**
FAMILY!



Pifco Owlite



Pifco Peacolite



Pifco Shiplite

Boxed singly in
display cartons.

Retail **2/6**

PIFCO
PORTABLE
ELECTRIC
NIGHT LAMPS

New winners in Pifco Electric Night Lamps! Novel, artistic, useful for countless purposes, they give a pleasing, long-lasting light. When not alight they form attractive ornaments. Complete with bulbs and British-made batteries. From all factors or from:
PIFCO, LTD.

Watling St., Manchester, or
58 City Rd., London, E.C.1

LABELS

**WE PRINT LABELS BY
THE MILLION**

AND THE GROWTH OF OUR BUSINESS
PROVES THAT WE PRINT THEM WELL

FOR THE MANUFACTURING CHEMIST
AND WHOLESALE DISTRIBUTIVE HOUSE

Give us your Enquiries

FOR THE RETAIL CHEMIST: SLIP AND
DISPENSING, CIRCLES, CORK TOPS,
ADDRESS SLIPS, PERFECTLY PRINTED ON
SUPERFINE QUALITY GUMMED PAPER

Send for Catalogue and Samples

CARILLON PRESS
LABEL & COLOUR PRINTERS
BOURNEMOUTH

PHONE 5304

"Adaptocaps"

SELF-SEALING CAPSULES

FOR ALL
BOTTLE
CAPPING

LONDON
MADE



THE
CAPSULE REMOVER
ENSURES EASY AND
RAPID REMOVAL OF
THE CAPSULE. IT
ALSO ADDS A SEAL
OF QUALITY

**THE LONDON
CAPSULE CO.**

EMPIRE WORKS • MITCHAM ROAD • CROYDON

Telephone: THORNTON HEATH 1234/5

It pays to display **EUCRYL**

**SHOWCARDS & DISPLAY MATERIAL
SENT ON REQUEST**



EUCRYL DENTIFRICES

**TOOTH POWDER · TOOTH PASTE · DENTURE POWDER
DENTAL PLATE FIXATIVE**

**PROFIT ON
SELLING
PRICE**

39%

**PROFIT ON
BUYING
PRICE**

63.6%

EUCRYL LTD. Manufacturing Chemists, SOUTHAMPTON

*The All-British
Dentifrices
with BIG
PROFITS*

*Nationally
Advertised
all the
Year Round*

Always a popular, easy-selling Xmas line...

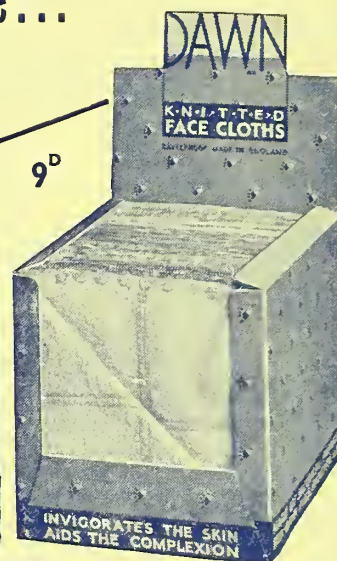
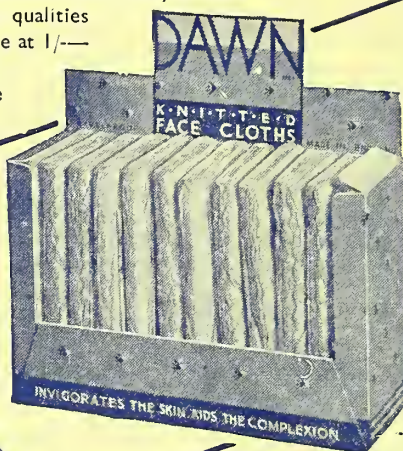
This year more than ever, utility presents will be in demand. "Dawn" Ravelproof Face Cloths will readily solve the "present" problem for scores of your customers.

They are attractively packed, in attractive colours, and ready to hand over. They are made in three different qualities retailing at 4½d., 6d., 9d., and a larger size at 1/-—the "Dawn" Super.

"DAWN" is a Xmas line you needn't be afraid of ordering because they're good stock all the year round.



Obtainable from your usual Wholesaler



"DAWN" Ravelproof Face Cloths look attractive—they are good value, and your customers will want repeats. See that you have ample stocks.

Jacques Fabrics Ltd

RED BANK MILLS, RADCLIFFE, Lancs. London Agent: G. H. Bolton, Oxford House, Falcon Sq., Aldersgate St.

Extra Profits

EVEN WITHOUT INCREASING YOUR TURNOVER!



The obvious way to get more profit is to increase your turnover... if competition will permit. The other way is to CUT OUT AVOIDABLE LOSSES, an insidious drain on your legitimate earnings. "N.C.R. Systems for Chemists" explains what these losses are and how to overcome them; it supplies other information of vital importance to the profitable management of a business.

To get your copy tear out this advertisement, pin your letter heading to it, and post in an unsealed envelope (½d. stamp) to the address below. A moment's work that will repay you for the rest of your days!

The National Cash Register Co., Ltd.
206-216 Marylebone Road, N.W.1

South Africa:—
N.C.R. Co., S.A.,
(Pty) Ltd.
P.O. Box 359,
Johannesburg.

Egypt:—
N.C.R. Co.,
Rue Baehler, 3
Cairo

Nigeria:—
N.C.R. Co., Ltd.,
194 Broad Street,
Lagos.



IT IS IMPORTANT THAT YOUR LABELS SHOULD BE FIRST-CLASS. THERE IS A WORLD OF DIFFERENCE BETWEEN THE OLDER-FASHIONED STYLES AND THOSE PRODUCED BY THE LITHO-OFFSET PROCESS. IF YOU WANT TO KNOW HOW GOOD YOUR LABELS CAN BE... Send us your next enquiry.

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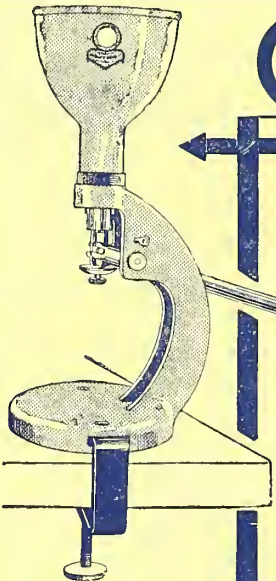
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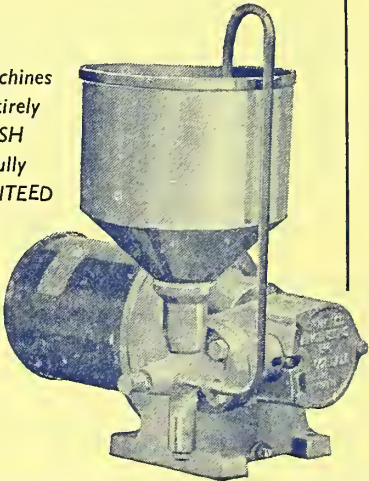


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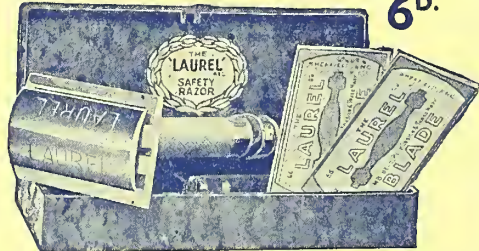
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*The official organ of The Pharmaceutical Society of Ireland, The Pharmaceutical Society of Northern Ireland,
The Chemists' and Druggists' Society of Ireland, and of other Chemists' Societies in Overseas Dominions*

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News of the Week

Business Changes

FOWLIE, REID & WILLS, LTD., merchants, have removed from Chapel Street, London, to 36 Young Street, Quay Street, Manchester, 3.

HERBERT FROMM, 29 Oxford Street, London, W.1, has removed to 75 The Avenue, Wembley Park, London. Telephone : Arnold 6166.

MR. G. MORUM, M.P.S., The Arcade, St. Peter Port, Guernsey, has closed his pharmacy owing to re-enlistment in H.M. Forces for the duration of War.

J. F. MACFARLAN & Co., Bethnal Green Road, London, E.1, have removed to temporary premises at The Old Cottage Hospital, Hospital Road, Potters Bar. Telephone : Potters Bar 2261.

THE PROPRIETARY ARTICLES TRADE ASSOCIATION has temporarily removed from 43 Gordon Square, London, W.C.1, to 7 Mill Lane, Tempsford, Sandy, Beds. Telephone : Blunham 224.

THE JOINT COMMITTEE FOR PRICING PRESCRIPTIONS (South Eastern Division) has temporarily removed from 25 Cedars Road, Clapham, London, S.W.4, to Cavendish House, Marlborough, Wilts.

BRUCE, STARKE & Co., LTD., 16 Water Lane, Great Tower Street, London, E.C.3, have transferred their offices to The Distillery, Eye, Suffolk. Telephone : Eye 86. A nucleus staff will be maintained at Water Lane, London, E.C.3.

London

Pharmacists in the London area with hospital experience who are or are likely to be unemployed as a result of present circumstances and who would accept temporary posts in the sector hospitals are asked to get in touch with Dr. James Coutts, pharmacist to St. Bartholomew's Hospital, London, E.C.1.

At Old Street Police Court, recently, Terrence Paul Hegarty, an assistant warehouseman, was charged on remand with stealing a quantity of toilet preparations and proprietary articles value £5 12s., the property of his employers, W. Sutton & Co., druggists' sundriesmen, Chiswell Street. Defendant was placed on probation.

Miscellaneous

PHARMACIES AS DRESSING STATIONS.—The town clerk of King's Lynn has issued public notices that in the event of air raids, chemists will be in attendance day and night at their premises, which are recognised as auxiliary dressing stations.

PHARMACY ACT PROSECUTION.—At Eddisbury (Cheshire) Petty Sessions recently, William Pickering, Tarporey, was summoned for an unauthorised sale of ammonia in a container not properly labelled. The charges were dismissed on the payment of costs.

DANGEROUS DRUGS ACT PROSECUTION.—At Hastings, recently, Mr. J. C. Simpson, M.P.S., St. Leonards, was fined £15, in respect of a number of summonses under the Dangerous Drugs Act. It was alleged that defendant had failed to keep a register and enter therein particulars of drugs obtained from or supplied by him; dispensed two prescriptions and at the time did not mark the date on which they were dispensed; and failed to keep prescriptions on the premises.

BRITISH STANDARDS INSTITUTION.—In a series of A.R.P. specifications which the Institution is preparing at the request of the Air-Raid Precautions Department of the Home Office, a specification has been included for petroleum jelly intended for sealing doors, windows and other cracks to make them gas-tight. A further specification in the same series is for mixture for anti-gas cloth (a mixture applied to textiles to render them impermeable to gas and composed of lanolin and a heavy oil). Copies of the standards (Nos. A.R.P. 12 and 22) may be obtained from the Institution, 28 Victoria Street, London, S.W.1, price 3d. each post free.

EARLIER CLOSING AND PAYMENT OF WAGES.—The Early Closing Association has appealed to the Home Secretary in support of the proposal to extend the Summer Time Act period, to consider the possibility of regulations fixing definite earlier hours of closing—in anticipation of the dark evenings to come—and to invite a general closure on Saturdays in all vulnerable areas where Saturday is the recognised weekly half holiday. Mr. Walter Rose, the secretary, points out the many advantages which can accrue from the above, and which with a spirit of co-operation could operate with distinct advantages without any appreciable dislocation of trade or inconvenience to the general public. The Association is also again urging the payment of wages during the middle week to enable the week-end purchases to be made not later than Friday or early Saturday morning at latest.

Irish Notes

Irish Drug Association

An addendum just issued by the Association to the Approved List in their Official Prices publication discloses that a large number of additional manufacturers have aligned themselves on the side of the policy of the I.D.A., and have undertaken to sell their products only through legitimate drug trade channels.

Mr. P. A. Brady, the president, was in the chair at the committee meeting of the Irish Drug Association held on September 4. The question of the supply of chemists' lines to canteens was again raised and it was stated by some members

CONTENTS

See p. 303

of the Committee that approved lines were being sold in some canteens. The secretary (Mr. R. J. Kidney) reported that a communication had been sent to all approved wholesalers, and assurances had been received from most of these firms that patent medicines would not be supplied to canteens. Members of the I.D.A. were warned not to supply approved lines to such institutions, or supplies would be stopped. A special form has been sent out by the Civic Guard purchasing guild, and canvassers from other guilds and co-operative societies are calling on chemists. In all instances members have been resolute in their refusal to allow discounts. At the invitation of the Irish Traders' Protection Association it was decided to appoint a representative to act on the Committee of that organisation. The Eire Government Commission on Vocational Organisation forwarded a copy of its terms of reference, and enclosed a *questionnaire* for completion. The Committee is anxious to assist this Commission in every way, and members who are interested in the subject, and who wish to offer comments and suggestions, can obtain a copy of the terms of reference and the questionnaire, on application to the secretary. Numerous inquiries arising out of the international situation were received from members. The Committee emphasised that the position is being closely watched. A small sub-committee having powers to deal with any emergency will probably be set up at the next meeting of the Committee. Arising out of the international situation members were urged to adhere to the prices in the I.D.A. Retail List, and ignore all other lists. This applied particularly to country members who should carefully watch their prices for Drugs and Chemicals, especially oils, paraffins and fertilisers. It is not economical to sell at less than list prices, but on the other hand, there is no need for drastic increases. In a communication circulated by the Wholesale Section of the I.D.A. members have been asked to refrain from ordering in excessive quantities.

Miscellaneous

Mr. R. J. BLACK, R.D., 24 Castlereagh Street, Belfast, has moved to new premises at No. 15 Castlereagh Street.

COUNCILLOR T. L. COLE, Ph.C., has been appointed chairman of the Belfast Food Control Committee.

OBITUARY.—Professor William Caldwell, M.A., Sc.D., died suddenly in Dublin on August 31. Until his retirement, Dr. Caldwell was Professor of Chemistry in the Royal College of Surgeons, Ireland, also examiner in chemistry and physics on the Conjoint Board and lecturer and examiner in chemistry for the Diploma of Public Health for the same body.

PHARMACEUTICAL COUNCIL ELECTION.—Nominations in connexion with the annual election to the Pharmaceutical Council of Northern Ireland close on September 18. The four pharmaceutical representatives retiring this year are: Messrs. W. C. Tate (president), J. W. Gray, Armagh, J. McGregor, Belfast, and I. W. Parker, Enniskillen. The Registered Druggists' representatives who are retiring are Messrs. Samuel Gibson, J.P., Belfast, and William Martin, Belfast. There will be no reduction this year in the druggists' representation on the Council, which at present consists of three members, but it is probable that next year the number will be reduced to two, owing to the gradual disappearance of druggists from the register.

Scottish Notes

Miscellaneous

Mr. A. G. ADAMSON, M.P.S., Kirkcaldy, has been appointed a member of the local Food Control Committee.

CHEMISTS AND A.R.P. DUTIES.—Chemists in Govan, Glasgow, have evolved a scheme for the manning of A.R.P. medical stores in the district. Seventeen chemists and their assistants have volunteered to attend at the casualty clearing station throughout the night in shifts, so that the burden of duty does not fall unduly heavily upon any one section of them. As they have arranged it with two on duty at one time, they are only called upon once in eight days. Arrangements are being made to develop a similar scheme in other districts in the city.

Topical Reflections

By Xrayser

Self-Depreciation

The concluding sentences of your first editorial article in last week's issue (p. 285) convey a timely warning against a national habit which, in the stress of a great war, is a grave drawback. There is a form of self-depreciation that is not entirely serious—the protest of the man who has just won a prize, in study or in sport, when he declares that it was only by good luck. But there is another form that prefers, or professes to prefer, products of foreign origin to native products—the attitude of the man who makes a point of importing various things in no way superior to those to be found in or near his own town. In a national emergency that habit of mind easily shades off into pessimism. A few months ago I was talking with a brilliant conversationalist who upheld the view that as a nation we are an incompetent set of amateurs. I do not agree. While we may not, as a rule, obtain full marks for dash and speed in attack, we do not leave much undone when we give our minds to the solution of a problem. It will be so again. In my contact with people in different walks of life during the past two or three weeks, I have been heartened by the quiet cheerfulness with which men and women have seen their holidays broken up or swept away and have assumed responsible duties in addition to their daily tasks. This—and it is not the only piece of evidence—assures me that we shall attain our objectives.

Key Industries

A clear instance of the value of national self-reliance is to be found in your editorial remarks (p. 285) on key industries. I remember the dismay, almost amounting to despair, on the part of certain experienced observers after the war of 1914–18, when they feared that our chemical manufacturers were, with possible exceptions, lapsing into the old practice of importing chemicals as a matter of course whenever there appeared to be any financial advantage, however slight, in doing so. The outcome of that anxiety is surveyed in detail, as you indicate, in

your Annual Special Issue of June 30, 1934, in an article that I have been looking through with renewed interest. Only a few of the 6,000 or more chemicals named in the list published by you in 1921 are made in very large quantities: on the contrary, the use of the majority is specific and limited. You mentioned in 1934 an organic reagent capable of detecting the presence of one part of a metallic impurity in 100,000,000 parts of a solution. Such reagents, however small the demand for them, may condition the success or failure of a batch of material worth several thousand pounds. At the other end of the scale come the heavy chemicals indispensable to warfare: here, it is well to know, there need be no delay in deliveries.

A Glimpse of Recent Science

In a second selection from the proceedings of the British Association (p. 282) you enable us to sample the kind of research that present-day science is carrying from point to point, thus "pushing ignorance further back." *Ginkgo biloba*, specimens of which flourish, or used to flourish, at Kew and at Oxford, constitutes a living link with the fossil remains of an immemorial past, and should hold a special place in the affection of all botanists. Whence came the prototype of this species and its extinct relatives? And how has it happened that plants, in the words of Sir Albert Seward, "show a remarkable persistence and uniformity over long periods of geological time, perhaps exceeding that of animals"? When we consider the implications of questions of this kind, we realise the force of the president's plea for a wider recognition of physical geography and geology. The geographical distribution of genera, and the alterations that have been found to occur in this distribution in the course of centuries, are usually attributed to climatic changes. But this may be only a half-truth. It is possible that in some cases the consumption of some element of the soil, minute in quantity but essential to the growth of a particular genus, is carried to such a point that the soil can no longer sustain the life of that genus, which accordingly must either die out or migrate.

War-time Notices

Oils and Fats.—Orders have been made under the Defence Regulations prescribing that the prices at which oilseeds, vegetable oils and fats, marine oils, and animal oils and fats specified in the Orders are sold must not exceed the average prices current during the seven days preceding the date of the Orders. Persons selling by wholesale must be licensed, and this will also apply to manufacturers or processors of the oilseeds, oils, and fats. Returns must be made forthwith of all stocks of more than 100 tons of the oilseeds, vegetable oils and fats, and marine oils, or of more than 50 tons of the animal oils and fats covered by the Orders, or of more than 5 tons of margarine or manufactured cooking fats. Applications for licences and stock return forms should be made to the Food (Defence Plan) Department, Oils and Fats Branch, Great Westminster House, London, S.W.1.

Orders were made on September 11 amending the Provisional Control Orders affecting oilseeds, vegetable oils and fats, marine oils and animal oils and fats which came into force on September 4. Persons holding stocks of more than 50 tons of the oilseeds, vegetable oils and fats, marine oils and animal oils and fats specified in the original orders which are situated abroad must comply (as from September 11) with the directions of the Ministry of Food for securing that the ownership of these stocks is transferred to the Government. A licence is now necessary for any dealings in these oilseeds, oils and fats which are not already in the United Kingdom. All persons holding stocks of more than 50 tons of any of these oilseed oils and fats whether situated within or outside the United Kingdom must make a return of their holdings forthwith to the Ministry of Food. Sellers are reminded that the prices at which sales are made must not exceed the average prices current during the seven days preceding September 4.

Import Licensing.—The importation of goods on the list below is prohibited under the Import Prohibition (No. 1) Order, 1939 (C. & D., September 9, p. 280), except under licence issued by the Import Licensing Department of the Board of Trade. The following explanations are given for the convenience of importers.

1. Goods on the list which are shown to the satisfaction of the proper officer of Customs and Excise at the time of importation to have been dispatched to the United Kingdom before September 5, 1939 (the date on which the Order came into force) will not be subject to the Order. In respect of any other goods, importers are warned that they should not arrange to ship until they have either obtained a licence or ascertained definitely that a licence will be available.

2. When making the Customs entry for any listed goods the importer must furnish to the Customs one extra copy of the entry.

3. The restrictions apply also to goods sent by parcel post.

4. Until further notice no licences will be issued for categories of goods on the attached list against which there is an asterisk.

5. In respect of the remaining goods licences will be issued to importers for limited quantities, the allocations being calculated for the time being by reference to the trade of each importer during the twelve months ended August 31, 1939.

6. Persons who have imported any of the goods in respect of which licences may be issued and who wish to continue to do so, should apply at once to the Import Licensing Department, 25 Southampton Buildings, Chancery Lane, London, W.C.2, for a form on which to make a statement of their past trade, and for application forms for licences. Care should be taken with the preparation of returns of past trade since an incorrect declaration will render an importer liable to penalties.

7. Importers will be informed as soon as possible of the amount of trade in respect of which they may apply for licences during a period which will be specified, but they should note that even after they have received this intimation, they should not arrange shipments without first obtaining a licence for the particular transaction.

8. The attention of importers is also called to the fact that the operation of the existing schemes whereby goods are prohibited, under various earlier enactments, orders, etc., to be imported except under the authority of a Board of Trade licence, is suspended by the present Order. Where such goods (viz., dyestuffs) are included in the attached list, applications for import licences must in future be made to the Import Licensing Department; all unused licences issued prior to the coming into force of this Order are revoked.

LIST OF GOODS

Glass and glassware.—Glass and glassware (other than optical glass and optical elements, whether finished or not, and scientific glassware liable to duty under the Safeguarding of Industries Act, 1921, as amended and extended by subsequent Finance Acts), the following: Illuminating glassware (other than flash-lamp bulbs of 4½ volts or less) not elsewhere referred to. *Plate and sheet glass, other than spectacle glass. *Articles of the following descriptions made wholly or partly of plate or sheet glass: Glass mirrors, shelves, finger plates, table tops and advertisement tablets. *Glass bottles, jars and tubular containers, and stoppers and covers for bottles and jars. *Glassware of a kind commonly used for domestic purposes. *Stationery glassware. Rough glass in the mass, waste and broken glass, and crushed glass (in powder, including chips).

Cutlery.—Cutlery (other than surgical knives or knives for use in machines).

Chemicals, etc.—Chemical manufactures and products, the following: *Acids, the following: Citric acid, formic acid, oxalic acid, tartaric acid. *Bleaching materials other than bleaching powder (chloride of lime). *Chloral hydrate. *Collodion. Disinfectants, insecticides, weed-killers, fungicides and sheep and cattle dressings, except tobacco offal. *Citrate of lime. Nicotine and nicotine sulphate. *Salt (sodium chloride). *Sodium compounds, the following: Carbonate, including soda crystals, soda ash and bicarbonate, caustic, cyanide, phosphate, sulphate, silicate (water glass). Dyes and dyestuffs, the following: (a) synthetic organic dyestuffs (including pigment dyestuffs) whether soluble or insoluble; (b) compounds, preparations and articles manufactured from any such dyestuffs, except any such compounds, preparations and articles as are not suitable for use in dyeing; and (c) organic intermediate products used in the manufacture of any such dyestuffs. Painters' and printers' colours and materials, the following: Paints (including anti-corrosive and anti-fouling), painters' enamels, lacquers, and varnishes. Distempers, whether dry or not. Pigments and extenders (whether dry or with oil or other medium) other than the following: Natural dyes, silica, cadmium lithopone, luminous paints and luminous and radio-active powders of a kind used in the manufacture of luminous paints, graphite, carbon black from natural gas or acetylene. Putty. Printers' ink. Soap.—Soap of all descriptions.

Miscellaneous manufactures.—*Perfumery and toilet preparations. *Toilet requisites of the following descriptions: Powder bowls or boxes and powder puffs, and parts thereof; nail polishes; nail clippers; and files; denture bowls, manicure sets; and parts thereof. *Perfumed spirits. Honey. Isinglass. Liquorice. Yeast.

Control of Exports.—The following are among the goods prohibited to be exported from the United Kingdom:—

DEFINITIONS

A means export is prohibited to all destinations.

B means any port or destination not being a port or destination in some part of His Majesty's dominions, in a British protectorate, in any country or territory under His Majesty's protection or suzerainty, or in a territory (other than Palestine and Transjordan) in respect of which a mandate on behalf of the League of Nations has been accepted by His Majesty and is being exercised by the Government of any part of His Majesty's dominions.

C means all destinations in foreign countries in Europe and on the Mediterranean and Black Seas, other than France and French possessions, and all ports in any such foreign countries.

Boron minerals, crude and concentrates of boracite and rasorite	A	Drugs, raw or simply prepared and the like, as follows—A.
Chile saltpetre	A	Agar
Diatomaceous earth	A	Aloe
Graphite	A	Anthemis
Lava and pumice in lump or powder	A	Araroba
Mica	A	Bals. Peruv.
Phosphate rock	A	Bals. tolu.
Quartzite	A	Belladonnae folium
Sulphur	A	Belladonnae radix
Seeds and nuts for oil, oils, fats, resins and gums—		Benzoilum
Seeds for expressing oil therefrom	A	Bismuthum
Nuts and kernels for expressing oil therefrom	A	Camphora
Gums and resins—		Cantharis
Copal	A	Cassara sagra
Shellac, seedlac and sticklac	A	Cassiae fructus
Rosin (colophony)	A	Cevadilla
Waxes—		Chrysarobinum
Beeswax	A	Cinchona
Candelilla	A	Coca
Oils, fats and greases—		Colchici cormus
Animal	A	Colchici semen
Fish and marine animal	A	Colophonium
Vegetable, other than essential	A	Digitalis folium
Mixtures of oils, fats and greases other than essential	A	Ephedra
Mineral—		Ergota
Crude petroleum	A	Filix mas.
Crude shale oil	A	Gentiana
Oleine (oleic acid)	A	Hydrargyrum (Mercury)
Soap stock	A	Hydrastis
Stearine (stearic acid)	A	Hyoscyamus
Rubber (including compounded rubber, vulcanite and ebonite)	B	Ipecacuanha
balata and gutta-percha and rubber scrap	B	Jalap
Cork, raw and granulated, shavings and waste	A	Lobelia
Drugs, raw or simply prepared and the like, as follows—A.		Lycopodium
Acacia		Nux vomica
Adeps lanae		Oleum cadinum
		Oleum caryophylli
		Oleum chenopodii
		Oleum hydnocarp
		Oleum morrhuae
		Oleum olivae
		Oleum ricini
		Oleum terebinthinae

Drugs, raw or simply prepared and the like, as follows—A

Oleum theobromatis	
Opium	
Pyrethrum flor.	
Quillaia	
Quassia	
Rheum	
Santonica (<i>Artemisia cina</i>)	
Scilla	
Senega	
Sennae folium	
Sennae fructus	
Stramonium	
Strophanthus	
Charcoal	A
Fertilisers, raw or simply prepared	A
Kapok	A
Sponges, natural	A
Tanning substances of the following descriptions—	
Gambier	C
Myrobalans	C
Sumach leaves	C
Valonia	C
Wattle bark	C
Tar and pitch (excluding natural asphalt and bitumen)	A
Pottery, glass, abrasives, etc.—	
Scientific glassware—	
Resistance glass and silica ware	A
Graduated glassware	A
Laboratory porcelain as specified in the United Kingdom Customs and Excise Tariff	A
Optical glass and optical elements whether finished or not, as specified in the United Kingdom Customs and Excise Tariff	A
Stoneware, acid proof and chemical, and acid resisting bricks	A
Refractory bricks, blocks and tiles of magnesite and dolomite	A
Abrasive wheels, cylinders, cups, cones, discs, rollers, blocks, bricks, stones or sticks, consisting of grains of natural or manufactured abrasive bonded together with other material	A
Crucibles, plumbago	A
Ferro-alloys, etc.—	
Ferro-chromium	A
Ferro-manganese and spiegeleisen	A
Silico-manganese	A
Ferro-silicon	A
Ferro-titanium	A
Ferro-tungsten	A
Ferro-uranium	A
Ferro-vanadium	A
Ferro-molybdenum	A
Silicon and alloys thereof	A
Silicon powder	A
Other descriptions	A
Non-ferrous metals and manufactures thereof—	
Aluminium and alloys containing aluminium—	
Ingots, blocks, slabs, billets, notch bars, wire bars, cakes and granules	A
Powder	A
Wire	A
Antimony and alloys containing antimony	A
Arsenic metal	A
Bismuth metal	A
Chromium metal and alloys containing chromium	C
Cobalt—	
Metallic	A
Alloys containing cobalt	A
Magnesium, metallic, and alloys containing magnesium	A
Magnesium powder	A
Mercury and mercury amalgams	A
Molybdenum	A
Nickel and alloys containing nickel (including Mu-metal)—	
Unwrought — ingots, cathodes, cubes, rondels, pellets, shot, grain and powder; and nickel flakes	A
Palladium, iridium, rhodium, osmium, ruthenium, Osmiridium, beryllium and columbium and alloys thereof	A
Platinum and alloys containing platinum—	
Grain, ingot, bar, wire or powder	A
Silver wire	A
Tantalum and tautalum wire	A
Tin—	
Blocks, ingots, bars and slabs	A
Titanium	A
Tungsten (and tungsten wire)	A
Vanadium	A

Non-ferrous metals and manufactures thereof—

Zinc or Spelter—	
Unwrought in ingots, blocks, bars, slabs and cakes	A
Sheets, strips, plates, discs and circles	A
Wire	A
Scientific instruments and appliances—	
Surgical instruments	A
Surgical appliances of the following descriptions—	
Furniture, aseptic hospital	A
Stretchers	A
Dressings and bandages	A
Catgut and other ligature and suture material	A
Optical instruments as specified in the United Kingdom Customs and Excise Tariff and parts of such instruments	A
Photographic—	
Cinematograph films, exposed, whether developed or not, and associated sound tracks or gramophone records	A
X-ray tubes and X-ray valves and parts thereof	A
Machinery—	
Chemical plant	A
Chemicals, drugs, dyes and colours—	
Chemical manufactures and products (other than drugs and dyestuffs)—	
Acetone, acetone oil and methyl acetone	A
Acids—	
Boric	A
Chloracetic	A
Nitric	A
Sulphuric including oleum	A
Alcohol—	
Methyl alcohol	A
Ethyl alcohol	A
Butyl alcohol	A
Ammonia	A
Ammonium compounds	A
Aniline and aniline compounds—	
Aniline	A
Alkylated anilines	A
Arsenic compounds—	
Arsenious oxide	A
Arsenious chloride	A
Sodium arsenite	A
Organo-arsenic compounds	A
Barium nitrate	A
Benzyl chloride	A
Bismuth compounds	A
Bleaching powder (chloride of lime)	A
Borax	A
Bromides	A
Bromine	A
Calcium carbide	A
Calcium silicide	A
Carbons, decolourising and activated	A
Carbon tetrachloride	A
Cellulose esters	A
Cellulose ethers	A
Cerium compounds	A
Chloramine-T (sodium p. toluene sulphate-chloramide)	A
Chlorinated naphthalenes	A
Chlorine, compressed or liquefied	A
Coal and coal tar products—	
Benzol and benzene	A
Toluol and toluene	A
Anthracene	A
Carbolic acid	A
Cresylic acid and cresols	A
Naphthalene (excluding naphthalene oil)	A
Tar oil, creosote oil, anthracene oil and other heavy coal tar oils	A
Solvent naphtha	A
Other coal tar products	A
Cobalt compounds	A
Disinfectants, insecticides, weed killers and sheep and cattle dressings	A
Disinfectants and antiseptics for the treatment of wounds	
Fertilisers manufactured, not elsewhere specified—	
Basic slag	A
Superphosphate of lime	A
Compound fertilisers, mixed fertilisers and compound manufactures, including fertilisers consisting of ammonium nitrate mixed with other materials not elsewhere specified	A
Bonemeal	A
Other descriptions, including guano	A
Formaldehyde	A

Chemicals, drugs, dyes and colours—

Glycerine	A
Glycol ethers, glycols and ether esters of glycols	A
Iodides	A
Iodine	A
Magnesium carbonate	A
Magnesium oxide	A
Nitrates not elsewhere specified	A
Phosphorus and phosphorus compounds	A
Potassium compounds	A
Radium compounds	A
Sodium compounds—	
Bichromate	A
Caustic	A
Nitrate	A
Strontium nitrate	A
Strontium oxalate	A
Thorium compounds	A
Tungsten carbide	A
Rubber accelerators, anti-oxidants and vulcanisers	A
Drugs, medicines and medicinal preparations. Manufactured or prepared, as follows—A :—	
Acetarsol	
Acetone	
Acapron	
Acetanilidum	
Acidum Acetylsalicylicum	
Acidum Ascorbicum (Vitamin C) and its preparations	
Acidum Boricum	
Acidum Nitricum	
Acidum Tannicum and its preparations	
Acrilavina	
Adrenalina and its preparations	
Aether	
Agar, preparations of,	
Alypin	
Amidopyrina	
Amydracinae Hydrochloridum	
Amylocaina Hydrochloridum	
Antrypol	
Apiol	
Argentoproteinum	
Argenti Vitellinatum	
Argenti Proteinase Mite	
Arseni Trioxidum	
Arsphenamina and derivatives as specified in the Third Schedule of the Therapeutic Substances Regulations, 1931	
Atebrin	
Atropina and its salts	
Avertin	
Barbitonum and its salts	
Bayer 205 (Germanin)	
Belladonna, preparations of,	
Benzaminae Lactas	
Bismuth and its salts and preparations	
Bromum and Bromides	
Caffeina and its salts	
Calcii Gluconas	
Calx Chlorinata	
Campbora, preparations of	
Carbomel Tetra-chloridum	
Cascara Sagrada, preparations of	
Chloroformum	
Chloralis Hydras	
Cinchona, preparations of	
Coca, preparations of	
Cocaina and its salts and preparations	
Colchicum, preparations of	
Coramine	
Cresotum	
Digitalis, preparations of	
Doryl	
Emetina and its salts	
Ephedra, preparations of	
Ephedrina and its salts	
Ergota, preparations of	
Evipan and its salts	
Extractum Hepatis Liquidum	
Extractum Hepatis Siccum	
Extractum Hepatis for injection	
Extractum Suprenali Corticis	
Ferri et Ammonii Citras	
Ferri Perchloridum and its preparations	
Felix Mas, preparations of	
Fouadin	
Guaiacol	
Guaiacolis Carbonas	
Hexaminum	
Heparin	
Hydrargyrum (Mercury) salts and preparations of	
Hydrastis, preparations of	
Hyoscyamus, preparations of	
Indicaminum	
Insulinum, solid or solution	
Insulin, Protamine with Zinc Iodoformum	
Iodum, Iodides and their preparations	

Drugs, medicines, and medicinal preparations. Manufactured or prepared, as follows—A :—

Ipecacuanha, preparations of	
Jalapa, preparations of	
Lobelia, preparations of	
Lithium and its salts	
Magnesii Sulphas	
Menthol	
Menthol synthetic	
Mersalylum and its preparations	
Morphina and its salts and preparations	
Methylis Salicylas	
Methylviola	
Nembutal	
Neostibosan	
Nux Vomica, preparations of	
Oleum Chenopodii, preparations of	
Oleum Hydnocarp, preparations of	
Opium, preparations of	
Orthocaina	
Paraffinum Liquidum	
Paraffinum Molle, White and Yellow	
Paraformaldehydum	
Paraldehydum	
Parathyroideum	
Pentothal Sodium	
Pepsinum	
Peptonum	
Percaime	
Phenacetinum	
Phenazonum and its preparations	
Phenobarbitonum	
Phenobarbitonum Solubile	
Phenol	
Physostigmina and its salts	
Pilocarpina and its salts	
Pituitarium and its preparations	
Pix Liquida	
Plasmoquine	
Potassium and its salts	
Procaine and its salts	
Progesterone	
Pyridina	
Pyroxylum	
Quinina and its salts	
Quinidina and its salts	
Resorcinol	
Salol	
Santoninum	
Senega, preparations of	
Sera (made or imported under licence of the Minister of Health)	
Sodii Salicylas	
Sulphanilum	
Sulphanilamidum and all derivatives including M and B 693 ("Dagenan")	
Sodii Phosphas Acidus	
Stramonium, preparations of	
Strychnina and its salts	
Testosterone	
Theophyllina and its salts	
Thymol	
Trinitrophenol	
Uroselectan B	
Vaccines	
Ventriculus Desiccatus	
Zinci Valerianas	
Dyes and dyestuffs (except dyewoods and raw dyeing substances) and extracts suitable for use in dyeing and tanning :—	
Intermediate coal tar products	A
Extracts for tanning	C
Indigo	A
Painters' and printers' colours and materials not elsewhere specified :—	
Carbon blacks	A
Lithopone	A
Sulphide (luminous)	A
Paints and painters' enamels prepared or ready mixed	A
Distempers	A
Varnish and lacquer	A
Printers' ink	A
Oils, fats and resins manufactured :—	
Lubricating compounds	A
Mineral Jelly	A
Petroleum (including shale oil) refined :—	
Kerosene	A
Motor spirit	A
Spirit other than motor spirit	A
Lubricating oil	A
Gas oil	A
Fuel oil	A
Other sorts	A
Turpentine	A
Paraffin wax	A
Leather, undressed and dressed, including scrap and waste	A
Anti-gas apparatus and appliances including respirators	A
Synthetic substitute for uncoloured glass	A

Pharmaceutical Society of Great Britain

Emergency Committee of Council

THE Emergency Committee of the Pharmaceutical Society's Council met at Bloomsbury Square, London, W.C., on Monday, September 4.

EXAMINATIONS

The examinations to be held in September were postponed. In view of the fact that a number of candidates have been called up for service the Committee agreed that it would not be practicable to hold even a modified examination for the September candidates and they accordingly agreed to request the two Boards of Examiners to award the results of these examinations upon the recommendations of the schools of pharmacy at which the candidates were trained. No decision upon the holding of future examinations was taken. The course proposed to be held for the Diploma of Biochemical Analysis in the School of Pharmacy in October was cancelled.

CONFERENCE ON MEDICINE STAMP DUTIES

The secretary reported that the conference on medicine stamp duties proposed to be held on September 13 had been postponed.

"THE PHARMACEUTICAL JOURNAL"

The Committee discussed and approved the arrangements for the continued production of "The Pharmaceutical Journal."

NEW BUILDING

The Committee instructed the secretary to discuss with the architect the steps to be taken.

BENEVOLENT FUND

The secretary was authorised to make temporary grants in the cases due for submission to the Benevolent Fund Committee which seemed to him to require immediate help.

EVACUATION

It was reported that the School, in accordance with the University of London scheme, was in course of transfer to Cardiff and the pharmacological laboratories to Reading. The routine work of the office was being conducted from Birdsgrove House, Mayfield, near Ashbourne, and the London Office was dealing with emergency inquiries.

North British Executive Meeting

A MEETING of the Executive of the North British Branch of the Pharmaceutical Society was held at 36 York Place, Edinburgh, on August 30, Mr. W. F. Hay in the chair. There were also present Messrs. Arthur, Bennett, Culbert, Guthrie, Harley, Hay, Henry, Innes, Jack, Miller, Milne, Murray, Ritchie, Sutherland and Thomas.

The report of the nomination committee for examiners for 1940 was submitted and approved for transmission to the Council.

The present position regarding medicine stamp duties was considered and the Executive agreed to send a statement to the Council.

The resident secretary reported that a special appeal letter would shortly be issued from the London office to members who had not yet contributed to the Building Fund.

EVENING MEETINGS

It was reported that Professor Cook, professor of chemistry in the University of Glasgow, had agreed to give the inaugural sessional address on November 17, his subject being "Some Biological Applications of Synthetic Chemistry." Other meetings had been arranged for in December, January, February and March.

Marriages

ALLCOCK—CAVANAGH.—At the Parish Church, Bury, recently, William Allcock, B.Sc., Ph.C., son of Mr. C. C. Allcock, M.P.S., Bury, to Kathleen Cavanagh.

BOYDELL—KIRKPATRICK.—At King Street Methodist Church, Leigh, on August 30, Arthur Clifford Boydell, M.P.S., to Nellie Kirkpatrick.

FORREST—FRASER.—At Greyfriars' Church, Dumfries, on August 31, James Hope Forrest to Mabel Sabiston Fraser, Ph.D., B.Sc., youngest daughter of Mr. John Fraser, M.P.S., Dumfries.

FOX—PATTISON.—Recently, F. Leslie Fox to Gwendoline, daughter of Councillor H. G. Pattison, M.P.S. (Harts, The Chemists (Derby), Ltd.), Derby.

GRIFFITHS—FREATHY.—At Lyndhurst Parish Church, on August 30, by the Rev. W. D. P. Griffiths, John Samuel Griffiths, M.P.S., Boston Lodge, Minfordd, Penrhyndeudraeth, to Muriel M. Freathy, Lyndhurst.

HAMILTON—FARQUHAR.—At Aberdeen, recently, Douglas Hamilton, M.P.S., Fraserburgh, to Stella Farquhar.

HAMPSHIRE—FRYER.—On September 7, David Allan, son of Mr. F. W. Hampshire (F. W. Hampshire & Co., Ltd., manufacturing chemists, Derby) to Marjorie Fryer.

KERR—MCINTYRE.—At Comrie, Perthshire, on September 4, Gilbert Heslop Kerr, M.P.S., to May McIntyre.

RATTRAY—FLEMING.—At St. Michael's Parish Church, Crieff, on September 3, Alastair Fisher Rattray, M.P.S., to Isobel D. Fleming.

SMITH—MORGAN.—At Horsmonden, Kent, on August 26, William Smith, M.P.S., to Catherine Morgan.

WHITE—BENTLEY.—At Glasgow, on August 29, John Livingstone White, M.P.S., to Mary Bentley.

Deaths

DRURY.—At 15 Fulwell Park Avenue, Twickenham, on September 6, Mr. George John Drury, chemist and druggist, aged 75. Mr. Drury was for some years manager for the late G. Pond & Sons, Fleet Street, London, E.C., and afterwards for W. Wilkinson, The Grove, Hammersmith, London, W.

PICK.—At the Victoria Hospital, Burnley, on September 8, Mr. Frank Phillips Pick, St. James's Street, Burnley, aged 63. Mr. Pick passed the Minor examination in 1898 and the Major in the same year. He was a founder member of the local Rotary Club and was elected President of it in 1927. He had also held office as President of the Burnley Chamber of Trade.

WALKER.—At Maidenhead, on September 7, Alderman John Wesley Walker, chemist and druggist, aged 91. Mr. Walker succeeded to his father's business but retired in 1887 and devoted the remainder of his life to public service. Among the numerous offices he had held are those of Mayor of Maidenhead and Alderman of the Berkshire County Council.

Personalities

ALDERMAN G. TURTON GREEN, M.P.S., Henley-on-Thames, has been appointed deputy Air Raids Precautions Controller for the Borough.

THE following pharmacists have recently been elected president of their respective Rotary Clubs: Messrs. W. L. Alexander, Boston, Lincs.; C. F. Shewell, Cromer; J. Allen Jones, Crosby, Lancs.; H. Woodhead, Eccles; A. G. Tilley, Farnham; W. G. Jenkins, Hayes, Middlesex; W. J. Brown, Ludlow; E. Watkinson, Nottingham; P. H. Warren, St. Albans; Fred D. Gee, Sale; C. A. Richardson, Shipley; W. J. Jones, Shrewsbury; J. A. Dale, Stoke-on-Trent; and H. H. Thatcher, Walsall. Five pharmacists are also acting as secretary and three as assistant secretary of their respective clubs.

Trade Notes

NEW PRICE LIST.—The Anglo-French Drug Co., Ltd., 11 Guilford Street, London, W.C.1, have issued a new price list of their pharmaceutical products.

FLAROMA CONCENTRATED PINE BATH ESSENCE is advertised in this issue by The Abietsan Manufacturing Co., Ltd., Concordia Works, Carmichael Road, London, S.E.25.

PRICE REDUCTION.—Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, announce reductions in price of Dagenan (M & B 693).

MARSHALL'S LYSOL.—Lysol, Ltd., Raynes Park, London, S.W.20, give some interesting information in their advertisement in this issue regarding Marshall's Lysol, Osyl and Amphyl.

AN INTERESTING NOVELTY.—Joshua Margerison & Co., Ltd., White Windsor Soap Works, Preston, have placed on the market a novel Christmas line as will be seen from the accompanying



illustration. The helmet contains a small bottle of the Arresting perfume No. 1212 and each is packed in a carton. Bottles of this perfume can be obtained separately in boxes if preferred.

PLASTRIP.—Duke Pharmaceutical Co. Ltd., 123 Duke Street, Liverpool, 1, supply Plastrip antiseptic self-adhesive bandage on bonus terms, particulars of which may be obtained on request.

ROCHE PRODUCTS, LTD., Welwyn Garden City, Herts, state that during the period of hostilities, their representatives will not be calling on wholesale and retail customers.

HOT-WATER BOTTLES.—Reliance Rubber Co., Ltd., Cremorne Works, Lots Road, London, S.W.10, advise their customers to take in as much as possible of their winter stocks of hot-water bottles in view of a possible shortage due to temporarily reduced output.

MANUFACTURE OF TABLETS.—Thompson & Capper Wholesale, Ltd., Speke Hall Road, Liverpool, 19, have an excellently-equipped tablet-making department and are able to undertake the manufacture of tablets of any kind and in any quantity. Particulars may be obtained on application.

POTTER & CLARKE, LTD., 60-64 Artillery Lane, London, E.1, publish a letter to their customers in their advertisement in this issue. The company point out that they have made certain adjustments in their business, but orders should still be sent to the above address.

W. J. BUSH & CO., LTD., Ash Grove, Hackney, London, E.8, announce that they are not evacuating their head office, but in event of communication with Hackney being temporarily suspended, communications should be addressed to them at The Distillery, Mitcham, or in the North to W. J. Bush & Co., Ltd., Widnes, Lancs.

HOWARDS & SONS, LTD., Ilford, wish to draw the attention of their customers to the fact that owing to reduction of staff, due to service calls, it is difficult for their representatives to pay their usual visits. Messrs. Howards will be glad if all orders and inquiries for fine chemicals are sent to the works at Ilford, where they will receive every attention.

LUMINOUS PAINT.—Thomas Tyrer & Co., Ltd., Stirling Chemical Works, Stratford, London, E.15, are able to supply in pint tins of green and violet luminous paint together with under-

coating material and protective varnish. Extensive use has been made of luminous paint for the purpose of indicating electric light switches, door handles, keyholes and so forth. The paint is readily visible at close quarters, but quite invisible at a range of forty to fifty yards. Messrs. Tyrer state that five minutes' daylight is sufficient to activate the paint for many hours of darkness.

FIRST-AID BOOKS.—As a result of present conditions large numbers of people are studying physiology, first aid and ambulance work. For this purpose and to meet the need for the demand for practical books in connexion with A.R.P. and A.F.S. training, George Gill & Sons, Ltd., Minerva House, Paternoster Square, London, E.C.4, have published two valuable booklets, namely: "The Lecture Pocket Book in First Aid" and "Test Questions and Model Answers on First Aid." The former contains four colour plates relating to the skeleton, circulation, and internal organs, circulation and respiration, fractures and dislocations. The prices of the booklets are 1s. and 6d. respectively.

PHARMACY CLASSES.—The next session of the London College of Pharmacy, Clapham Road, London, S.W.9, will open as planned on October 4 with complete nine-month courses for the Preliminary Scientific and Chemist and Druggist Qualifying examinations. The usual revision courses in all subjects will also be held. While the position of the College in South West London makes for a reasonable degree of security, adequate protection precautions have been taken. A basement shelter is being prepared under expert guidance and if necessary further deep trench shelters will be prepared in the Botanical Garden. In order to prepare for all emergencies, however, and to ensure that students may have a complete course, alternative accommodation has been secured in the vicinity.

Company News

P.C. means Private Company and R.O. Registered Office

B. CHAMBERLAIN, LTD. (P.C.).—Capital £1,000. Objects: To acquire the business of a chemist and druggist, carried on by B. Chamberlain at 343 North Road, Darlington. Burt Chamberlain, 343 North Road, Darlington, director.

SWINGATE PHARMACY, LTD. (P.C.).—Capital £500. Objects: To carry on the business of chemists and druggists, etc. Lydia A. Jones and John Carbutt, 153 Swingate Lane, Woolwich, directors. R.O.: 153 Swingate Lane, Woolwich.

LAWRENCE (CHEMISTS), LTD. (P.C.).—Capital £100. Objects: To carry on the business of wholesale or retail, manufacturing, pharmaceutical and general chemists, etc. Gladys F. K. Lawrence, 8 Royal Deer Buildings, South Street, Farnham, Surrey, director.

PERCY LEACH, LTD. (P.C.).—Capital £500. Objects: To carry on the business of manufacturers of, and dealers in, fire-proofing mixtures, solutions and paints, and fire extinguishers, manufacturing chemists and druggists, etc. Percy Leach, 73 Dalryell Road, Brixton, S.W.9, director. R.O.: Gloucester House, 19 Charing Cross Road, London, W.C.2.

PANOLEA (PROPRIETARY), LTD.—Capital £2,500. Registered in Pretoria, Union of South Africa. Objects: To manufacture sulphurised and oxidised animal, vegetable and mineral oils and chemical products for the use of tanneries and other industries, to acquire the machinery, inventions and devices of Goldberg & Sidas, specialised in the manufacture of chemical products in Poland. The registered office is in the Transvaal Province. The British address is at Milton House, 8-9 Chiswell Street, London, E.C., where Stephan R. Haas is authorised to accept service of process and notices on behalf of the company. Dr. Victor Haas, 149 Commissioner Street, Johannesburg, Frederick Haas, 8-9 Chiswell Street, E.C., and Dr. Stephan R. Haas, 8-9 Chiswell Street, E.C., directors, all of Czechoslovakian nationality, formerly Austria-Hungarian.

BANKRUPTCY.—R. G. F. Brown, M.P.S., 40 Chatham Street, Ramsgate.

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, September 13

CONDITIONS in the markets continue generally unsettled, and it is becoming evident that it will take some little time before quotations regain their former steadiness. In many instances it is still not possible to define values other than by nominal figures, while in others, holders' quotations have not yet reached uniformity. Business continues quite good but spot holders are now restricting their sales to limited quantities, and then only doing business with their former customers. Speculation is non-existent. British chemical manufacturers and manufacturing chemists all report full activity, and their price changes continue to be largely restricted to products for the raw materials of which they are now having to pay higher prices. It is anticipated that MERCURIALS prices will have to be adjusted for this reason. Some manufacturers have advised their customers that, owing to the cost of compulsory war insurance and other increased costs, invoices will be surcharged approximately five per cent. as from September 11. This has not been adopted as a general practice throughout the trade.

Crude Drugs

A good demand continues for CRUDE DRUGS and similar products, and prices are being adjusted to account for the increased costs of replacing present stocks. AGAR, which is mentioned in the list of products prohibited from importation except under licence, is firm. CURAÇAO ALOES continues firm as quoted. BISMUTH METAL is valued at the increases noted last week. BUCHU is firm for spot leaves. There is a good demand for CAMPHOR, with holders reserving stocks for their former customers. CASCARA SAGRADA is a strong market. Polish ERGOT is a firm spot market. Good business in Sudan GUM ACACIA is reported. Supplies of HONEY are fairly substantial. Japanese MENTHOL has sold well and spot holders are not pressing for business. Spanish-Italian MERCURY quotations have been adjusted. RHUBARB is a strong market. Good supplies of SENEGA are available at steady prices. Spot prices for TRAGACANTH have had to be adjusted substantially, and WAXES have recorded a similar movement.

Essential Oils

There has been plenty of business in these products, but spot holders are liquidating stocks slowly and to regular customers only. Largely owing to adverse exchange movements, prices for practically all products have had to be further adjusted. At the moment some holders are not quoting, preferring to await more settled conditions. Japanese PEPPERMINT has been an outstanding item in active demand.

Exchange Rates on London

The following is a list of the chief Continental and other exchange rates at the opening on Wednesday morning:—

Centre	Quoted	Par	September 6	September 13
Amsterdam ..	Fls. to £	12.107	7.60	7.60*
Berlin ..	Mks. to £	20.43	—	—
Brussels ..	Belgas to £	nominal	23.83	23.65*
Copenhagen ..	Kr. to £	18.159	22 (Sep. 2)	—
Lisbon ..	Esc. to £	110	109½ (Sep. 2)	109
Madrid ..	Ptas to £	25.24½	42½ (Sep. 2)	—
Milan ..	Lire to £	92.46	nominal	77½
Montreal ..	Dols. to £	4.86½	4.49	4.43*
New York ..	Dols. to £	nominal	4.04	4.04*
Oslo ..	Kr. to £	18.159	17.78	17.85*
Paris ..	Fr. to £	124.21	174½	176½*
Prague ..	Kr. to £	164.25	—	nominal
Stockholm ..	Kr. to £	18.150	16.96	16.97
Warsaw ..	Zloty to £	43.38	nominal	—
Zurich ..	Frs. to £	22.2115	18.02	17.85*

* Rates fixed by Bank of England.

Bank rate 4 per cent.

Pharmaceutical Chemicals, etc.

MANUFACTURERS and merchants report a continued good demand for these products. Prices are firm as quoted, but the general increase in prices has so far been remarkably small and due chiefly to the cost of war-risks insurance. Mercurials are likely to advance on account of the rise in metal.

ACETANILIDE.—Steady: B.P. crystals and powder quoted at is. 7d. to is. 10½d. per lb., as to quantity.

AMIDOPYRINE.—Crystals, two cwt., is. 6d.; one cwt., is. 6d.; less than one cwt., is. 9d. per lb., with powder 2½d. per lb. extra.

AMMONIUM ICHTHIOSULPHONATE.—Scale of prices steady: one cwt., is. 6½d., in 14-lb. tins; is. 8d., in 1-lb. tins; is. 10d., in 8-oz. tins; and 2s. 1d. per lb., in 4-oz. tins.

ASPIRIN.—Makers' scales of prices continue steady:—

In containers	1 lb.	2 lb.	4 lb.	7 lb.	14 lb.	28 lb.
1 lb. and under 4 lb. ..	s. d. 3 3	s. d. 3 1½	—	—	—	—
4 lb. and under 7 lb. ..	3 2	3 0½	3 0½	—	—	—
7 lb. and under 14 lb. ..	3 1	2 11½	2 11½	2 10½	—	—
14 lb. and under 28 lb. ..	3 0	2 10½	2 10½	2 9½	2 9½	—
28 lb. and under 1 cwt. ..	2 11	2 9½	2 9½	2 8½	2 8½	2 8
Not less than 1 cwt. ..	2 7½	2 6	2 5½	2 5½	2 5	2 4½
Not less than 5 cwt. ..	2 7	2 5½	2 5½	2 4½	2 4½	2 4
Not less than 10 cwt. ..	2 6	2 4½	2 4½	2 3½	2 3½	2 3

The quotations for aspirin, powder and tablets, are subject to the following conditions:—Buyer not to resell any quantity at prices or terms below the scale for such quantity current at the time the resale is made, and, if he converts the aspirin into tablets, not to sell any quantity of tablets at prices or terms below the scale for such quantity at the time he sells the tablets.

BISMUTH SALTS.—The scale of prices for carbonate has been adjusted as from September 11. Other salts are quoted unchanged at the adjustment made on August 29.

Prices per lb.	Net Monthly Account					Net 14 days
	Under 4 lb.	4 lb. and under 8 lb.	8 lb. and under 28 lb.	28 lb. and under 1 cwt.	Not less than 1 cwt.	
Bismuth Carbonate ..	s. d. 8 6	s. d. 8 0	s. d. 7 3	s. d. 6 9	s. d. 6 6	
„ Citrate ..	11 10	11 4	10 7	10 1	9 10	
„ Nitrate Cryst. ..	6 10	6 4	5 7	5 1	4 10	
„ Oxide ..	12 9	12 3	11 6	11 0	10 9	
„ Salicylate ..	10 0	9 6	8 9	8 3	8 0	
„ Subchloride ..	12 6	12 0	11 3	10 9	10 6	
„ Subgallate ..	9 8	9 2	8 5	7 11	7 8	
„ Subnitrate ..	7 10	7 4	6 7	6 1	5 10	

Contracts are booked for 1 cwt. and upwards for delivery over three months, and are subject to a rise and fall clause. A rebate of 3d. per lb. is allowed on sales of not less than 2 cwt. salts (assorted if required), provided delivery is completed within three months. All deliveries ex contract are sold on net cash 14 days' terms.

BROMIDES.—Makers' scales of prices steady: POTASSIUM, B.P., five cwt., is. 8d.; one cwt., is. 9d.; 28 lb., 2s. per lb. SODIUM, B.P., five cwt., is. 10d.; one cwt., is. 11d.; 28 lb., 2s. 2d. per lb. AMMONIUM, B.P., five cwt., is. 11d.; one cwt., 2s.; 28 lb., 2s. 3d. per lb. net. Resale clause applies, 28-lb. parcels and one-cwt. cases free. Smaller quantities than 28 lb. at higher prices. Export quotations are maintained as follows: POTASSIUM, B.P., five cwt., is. 4d.; one cwt., is. 4½d. SODIUM, B.P., five cwt., is. 5d.; one cwt., is. 5½d. AMMONIUM, B.P., five cwt., is. 6d.; one cwt., is. 7d. per lb., f.o.b.

CAFFEINE.—Imported material is now quoted only in American currency with pure at 2 dollars 10 cents for minimum 2,000-lb. lots up to 2 dollars 31 cents per lb. for small parcels. Other salts in proportion.

CHLORAL HYDRATE.—Makers' prices are steady; duty paid crystals, in 14-lb. free containers, five cwt., 3s. 2d.; one cwt., 3s. 3d.; 28 lb., 3s. 4d. per lb.; 28-lb. jars one penny per lb. extra.

CITRATES.—Makers' prices for POTASSIUM CITRATE are unchanged:—

	1 lb. bts. or tins	2 lb. bts. or tins	4 lb. bts. or tins	7 lb. bts. or tins	14 lb. bts. or jars	28 lb. tins free
Under 4 lb. ..	s. d. 2 2	s. d. 2 0½	s. d. —	s. d. —	s. d. —	s. d. —
4 lb. and under 7 lb. ..	2 1	1 11½	1 11½	—	—	—
7 lb. and under 14 lb. ..	2 0	1 10½	1 10½	1 9½	—	—
14 lb. and under 28 lb. ..	1 11	1 9½	1 9½	1 8½	1 8½	—
28 lb. and under 1 cwt. ..	1 10	1 8½	1 8½	1 7½	1 7½	1 7
1 cwt. ..	1 8	1 6½	1 6½	1 5½	1 5½	1 5

COCAINE.—British makers' prices for wholesale bulk quantities are quoted as follows: HYDROCHLORIDE and NITRATE, 25 oz. and over, 29s. 6d.; 16 oz. and less than 25 oz., 30s. 9d.; over 8 oz. and less than 16 oz., 31s. 9d. per oz. PURE, CITRATE and SALICYLATE, 25 oz. and over, 32s. 6d.; 16 oz. and less than 25 oz., 33s. 6d.; over 8 oz. and less than 16 oz., 34s. 6d. per oz., 16-oz. packages free. Smaller packing

extra. The scale of prices applicable to distributors of smaller quantities is as follows: HYDROCHLORIDE and NITRATE, 8 oz., 34s. 1d.; 4 oz. and less than 8 oz., 34s. 7d.; 2 oz. and less than 4 oz., 35s. 5d.; 1 oz. and less than 2 oz., 36s. 5d.; $\frac{1}{2}$ oz. and less than 1 oz., 37s. 11d.; $\frac{1}{4}$ oz. and less than $\frac{1}{2}$ oz., 40s. 11d. per oz. PURE CITRATE and SALICYLATE, 8 oz., 36s. 10d.; 4 oz. and less than 8 oz., 37s. 4d.; 2 oz. and less than 4 oz., 38s. 2d.; 1 oz. and less than 2 oz., 39s. 2d.; $\frac{1}{2}$ oz. and less than 1 oz., 40s. 8d.; $\frac{1}{4}$ oz., and less than $\frac{1}{2}$ oz., 43s. 8d. per oz., packages extra. Resale: Sales subject to buyers undertaking not to resell any quantity below the scale of prices for such quantity current at the time of resale. Export prices vary according to destination.

CREAM OF TARTAR.—Market is steady: British material, 99 to 100 per cent., 92s. per cwt., less 2½ per cent. discount. Dealers' prices for foreign material competitive.

CREOSOTE.—Quiet: bulk quantities, in 25-kilo demijohns, 1s. 6d.; small parcels, 1s. 7½d. up to 2s. per lb., ex store.

EPHEDRINE.—Market is firm: Hydrochloride, B.P., 5s. 9d. to 6s. 3d. per oz. for minimum 1,000-oz. lots; small quantities, up to 7s. Pure alkali is quoted from 7s. 6d. to 8s. per oz., as to quantity.

GALLIC ACID.—Steady, small trade: spot, one cwt., 3s.; 56 lb., 3s. 1d.; smaller parcels, up to 3s. 6d. per lb.

GLYCERIN (B.P.).—Makers' prices continue unchanged but are liable to withdrawal without notice. The scales are as follows:—

PRICE PER CWT.

Contracts or spot lots of	Under 1 cwt.	1 cwt. and under 2½ cwt.	2½ cwt. and under 5 cwt.	5 cwt. and under 10 cwt.	10 cwt. and under 20 cwt.
Minimum deliveries of contract of	—	1 cwt.	1 cwt.	1 cwt.	2 cwt.
Tins, 14 lb. each .. per cwt.	90/-	85/6	84/6	81/6	80/6
Tins, 28 lb. "	87/-	83/-	82/-	79/-	78/-
Tins, 56 lb. "	84/-	80/6	79/6	76/6	75/6
Drums, 1 cwt. (charged 20/-) ..	—	76/-	75/-	72/-	71/-
Drums, 2½ cwt. (" 60/-) ..	—	—	73/-	70/-	69/-
Drums, 5 cwt. (" 75/-) ..	—	—	—	69/6	68/6
Drums, 10 cwt. (" 100/-) ..	—	—	—	—	68/-
Extra per cwt. for smaller deliveries	5 cwt. and under 10 cwt.	—	—	—	—
ex contract than 1 cwt. and under 2 cwt.	—	—	—	—	-6
as above specified.	Under 1 cwt.	1/-	1/-	1/-	1/6

Refined pale straw industrial glycerin, 1260 S.G., 5s. per cwt. less than for the chemically pure. Without engagement. These prices are subject to alteration, without notice.

IODIDES.—Makers' prices are adjusted as follows, as from September 12: POTASSIUM, B.P.—28 lb., 7s. 3d.; 4 lb., 8s. 6d. SODIUM, B.P.—28 lb., 7s. 9d.; 4 lb., 9s. 3d. IODINE, B.P., RESUBLIMED.—28 lb., 8s.; 4 lb., 9s. 5d. IODOFORM, B.P., CRYST., PRECIP. OR POWDER.—28 lb., 10s.; 4 lb., 11s. 10d. per lb. CRUDE IODINE has been altered in price to 13s. per kilo.

METHYL SALICYLATE.—Makers' prices steady: spot, ten cwt., 1s. 1½d.; five cwt., 1s. 2d.; one cwt., 1s. 2½d.; less than one cwt., 1s. 3d.; small quantities, in bottles, up to 2s. per lb.

PHENACETIN.—Makers' prices unchanged: crystals or powder, bulk quantities, from 2s. 6d.; smaller parcels from 2s. 7d. to 3s. per lb., as to quantity.

PHENOLPHTHALEIN.—Market is steady: two cwt., 2s. 9d.; one cwt., 2s. 10d.; 28 lb., 3s.; 14 lb., 3s. 1d.; 7 lb., 3s. 2d.; smaller parcels up to 3s. 6d. per lb.

PHENYLETHYLBARBITURIC ACID.—Dealers' prices in 2-lb. bottles are steady at about 16s. to 17s. per lb., as to quantity.

PHOTOGRAPHIC CHEMICALS.—Home makers' prices are as follows: AMIDOL.—28 lb., 8s.; 14 lb., 8s. 9d. net; 7 lb., 9s. 6d., in free 7-lb. tins; under 7 lb., 12s. per lb., in free 1-lb. bottles, less 2½ per cent. monthly terms. CHLOROQUINOL.—1-lb. bottles, 21s. per lb. GLYCIN.—7 lb., 10s. 6d.; 1-lb. bottles, 13s. 6d. per lb. HYDROQUINONE.—56 lb., 4s. 10½d.; 28 lb., 5s.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; in 1-lb. bottles, 6s. 6d. per lb. METOL.—28 lb., 9s. 6d.; 14 lb., 9s. 9d. net; 7 lb., 10s. 6d., tins free; 3 lb., 12s., bottles free; 1-lb. bottles, 12s. 6d. per lb., bottles free, less 2½ per cent. monthly terms. ALUM (PHOTOGRAPHIC QUALITY).—1 cwt., 21s. per cwt.; 28 lb. for 6s. GOLD CHLORIDE.—15-grain tubes, 45s. per doz. MAGNESIUM POWDER.—10s. per lb. PARAMIDOPHENOL HYDROCHLOR.—8s. 6d. per lb., bottles free. POTASSIUM FERRICYANIDE.—14 lb., 2s. 2d.; 7 lb., 2s. 4d.; 1 lb., 2s. 6d. per lb. POTASSIUM METABISULPHITE.—One cwt., 8d.; 28 lb., 9d.; 14 lb., 10d.; 7 lb., 1s. per lb. PYROGALLIC ACID, CRYST.—One cwt., 7s. 9d.; 56 lb., 8s.; 28 lb., 8s. 3d. net; 14 lb., 9s. 9d.; less than 7 lb., 10s. 3d. per lb., less 2½ per cent. monthly account. Resale in small packages: 1-oz. bottles, 2s.; 4-oz., 5s. 3d.; 8-oz., 9s.; 16-oz. bottles, 16s. 1½d. each, less 33½ per cent. to the trade. RESUBLIMED.—1-oz. bottles, 2s. 6d.; 4-oz., 6s. 6d.; 8-oz., 11s. 3d.; 16-oz. bottles, 20s. 3d. each, less 33½ per cent. to the trade. SODIUM CARBONATE, RECRYST.—5 cwt., 12s. 6d. per cwt.; 1 cwt., 15s. 6d. per cwt.; 56 lb. for 11s. 6d.; 28 lb. for 6s. SODIUM HYPOSULPHITE, CUBES, CRYST.—5 cwt., 17s.; 1 cwt., 19s. 6d. per cwt.; 56 lb. for 11s. 6d.; 28 lb. for 6s. SODIUM SULPHIDE (PURE).—7 lb., 1s. 9d.; 1 lb., 2s. per lb., bottles and jars

free. SODIUM SULPHITE, RECRYST.—One cwt., 21s. 6d. per cwt.; 56 lb. for 13s. 6d.; 28 lb. for 7s.

STRYCHNINE SALTS.—Makers' scales of prices for these products are nominally unchanged. Home trade and Empire (excluding Canada) prices are as follows:—

	Under 250 oz.	250 oz. and under 500 oz.
	Per oz. s. d.	Per oz. s. d.
Pure Crystals	1 4	1 3½
Pure Precip.	1 4	1 3½
Acetate	1 10½	1 10
Arsenate	1 9½	1 9
Arsenite	1 10½	1 10
Bisulphate	0 10½	0 10
Hydrochloride	1 2	1 1½
Hypophosphite	3 4½	3 4
Nitrate Crystals	1 2	1 1½
Nitrate Powder	1 2	1 1½
Nitrate Powder No. 2	0 10½	0 10½
Phosphate	2 1½	2 1
Sulphate Neut. Cryst.	1 0½	1 0
Sulphate Neut. Powder	1 0½	1 0
Sulphate Neut. Powder No. 2	0 10½	0 10½

Terms net 30 days. 25-oz. tins free. Smaller packages charged extra, 1-oz. bottles 2d. extra. Delivered home market or c.i.f. export. For export: discount 1 per cent. cash in 10 days. Cases free. Buyers held covered against price reduction for 10 days after arrival of steamer at port of destination. Contracts can be booked for 250 oz. upwards with fall clause, delivery over six months.

VANILLIN.—Prices adjusted as follows: ex clove oil or guaiacol, five cwt., 12s.; one cwt., 12s. 1½d.; 56 lb., 12s. 3d.; less, 12s. 6d. per lb., with isolated offers of outside material at cheaper prices.

Crude Drugs, etc.

REVISIONS in spot values continue to be mostly due to adverse movements in exchange rates. Business is entirely restricted to consuming trade. All products are firm and in demand, with values tending upwards.

AGAR.—Good demand. No shipment offers and no reply to orders cabled out: spot, Kobe 1, holders now wanting 6s. 3d. per lb., ex store; Kobe 2, 5s. 9d.; Yokohama No. 1, 5s. 9d. per lb., ex store.

ALOES.—Prices again adjusted, market firm: spot, Curaçao, 250s. to 300s., as to quality. Cape, about 57s. 6d., as to quality. No shipment quotations.

BALSAMS.—Firm: Tolu, 2s.; Canada, 3s. 3d. to 3s. 4½d.; Copaiba, 2s.; Peru, 4s. 9d. per lb., ex store.

BELLADONNA.—Leaves are quoted at about 57s. 6d. and root at 75s. per cwt., ex store, in small parcels.

BENZOIN.—There are spot sellers of Sumatra from 80s. to 100s. per cwt., ex store, as to quality. Dearer on exchange.

BISMUTH METAL.—Quoted only in American dollars at 1 dollar 05 cents per lb., ex store.

BUCHU.—Fair amount of business reported, with medium to fair quality leaves at 1s. 7d. to 1s. 9d. per lb., in bales, ex store. No shipment offers.

CAMPHOR.—Good demand for Japanese on spot. Cables ordering goods ten days ago have not been answered. Holders are firm at 3s. for tablets, 2s. 9d. for slabs. No powder. No shipment offers, except one of slabs at 3s. c.i.f. English refined flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz., and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; $\frac{1}{2}$ oz., $\frac{1}{4}$ oz., and $\frac{1}{8}$ oz., 3s. 6d. Japanese monopoly BB brand, £7 10s. per 100 lb.

CASCARA SAGRADA.—There are no offers for shipment of new crop. There may be spot sellers of limited quantities at about 100s. per cwt., ex store, for 1938 peel.

COLOCYNTH PULP.—Holders of spot stocks are prepared to do business on the basis of 1s. 6d. to 1s. 9d. per lb., as to quantity.

CHAMOMILES.—New-crop flowers are quoted at about 160s. to 180s. per cwt., ex store, as to quality.

CLOVES.—Spot, Zanzibar, 9½d. per lb. Madagascar, in bond, 9d. per lb.

COCONUT (DESICCATED).—It is reported that up to 24s. 6d. per cwt. has been paid for fine and medium on spot. Sellers reserved.

COD-LIVER OIL.—There has been a lively demand for Lofoten quality and the prices have been adjusted, standing now at 120s. to 130s. per barrel, c.i.f. London. Export of oil is being controlled under a licensing system.

DIGITALIS LEAVES.—Spot holders value bulk quantities at about 85s. per cwt. Small parcels, up to 90s. per cwt., ex store.

ERGOT.—There may be one or two small lots of Polish available on spot at about 6s. 6d. to 7s. per lb., ex store. No shipment offers of any variety.

GINGER.—West African on spot now quoted at 21s. per cwt., ex store.

GUM ACACIA.—Spot holders are conserving stocks, and Kordofan cleaned sorts are not available under 62s. 6d. per cwt. Some shipment offers at 47s. 6d., c.i.f., are reported.

HENBANE.—Dealers are quoting spot supplies of leaves at about 65s. to 67s. 6d. per cwt., ex store.

HONEY.—Fair business, market firm: Jamaican, from 34s. 6d. for dark manufacturing to 50s. per cwt. for pale set. Canadian, 52s. 6d. to 55s. Californian white, clover, 55s. to 57s. 6d., duty paid. Small quantities of all varieties at higher rates.

HYDRASTIS.—No shipment offers from the source. U.S.P. quality on spot, if available, 17s. 6d. to 18s. 6d. per lb., ex store, for small parcels.

IPECACUANHA.—The spot value of Matto Grosso, B.P. test, is now fully 9s. 6d. per lb., 9s. having been paid.

LIQURICE ROOT.—Natural of good quality is quoted at 14s. to 15s. per cwt., ex store.

MANNA.—Finest selected flake, in 1-lb. tins, quoted at 4s. to 4s. 3d. per lb., ex store.

MENTHOL.—Market firm, with plenty of buyers of K/S brands. It is reported that 15s. 9d. per lb. has been paid on spot and 16s. is now asked. Cables ordering shipment goods seven days ago have not been replied to by Japanese shippers. Spot, K/S brands, 12s. 10d. to 13s. per lb., as to seller. Some Chinese available at from 15s. per lb., ex store.

MERCURY.—First-hand suppliers of Spanish-Italian metal are now quoting at 86 American dollars per bottle, ex store, London, and 82 dollars f.o.b. Spanish or Italian port.

NUTMEGS.—Small supplies of wormy and broken West Indian available at 4d. to 4½d. per lb., ex store.

PEPPER.—Lampong has sold on spot at about 3½d. per lb. White Muntok, spot, 6d. per lb. paid.

PIMENTO.—Spot holders are quoting 9½d. per lb. Shipment nominal.

PYRETHRUM.—No shipment quotations for Japanese or Kenya flowers.

RHUBARB.—Fair business in Rough Round, at prices up to 3s., with 3s. 1½d. now asked. Shensi pickings, 4s. 9d. to 5s. per lb., ex store. No shipment offers.

RUBBER.—Standard smoked sheet, spot, irregular, 9½d. to 10d. September, 9½d.; October, 9½d.; October-December, 9½d. per lb. Closing irregular.

SEEDS.—ANISE.—Spot, duty paid, Spanish 95s.; Russian and Bulgarian all cleared on spot. CANARY.—Latest prices, quoted duty paid, are: Mazagan, 14s.; Morocco, 13s.; Turkish, 13s.; Plate, 12s. 6d.; and Spanish, 42s. CORIANDER.—Spot, Morocco, quoted at 16s. to 16s. 6d., duty paid, and 15s. in bond. No c.i.f. offers have yet been received from Morocco. CUMIN.—Spot, Morocco, nominal 50s., duty paid. No Malta on spot. DILL.—Spot, Indian, 18s. 6d. FENNEL.—All spot stocks have been cleared. FENUGREEK.—Spot, Morocco, 13s. 6d., duty paid. MUSTARD.—English, nominal at 27s. 6d. to 38s., according to quality.

SENEGA.—Good stocks reported here. Holders have sold at 2s. 8d. to 2s. 9d. per lb., ex store.

SHELLAC.—Spot, TN orange, 46s. to 48s. per cwt. Pure button, nominal, 75s. Fine orange, nominal, 65s. to 90s. per cwt., ex store.

TRAGACANTH.—Prices have been adjusted, market firm: Finest selected white ribbon, £70; No. 1, white, £65 to £67 10s.; No. 2, white, £62 10s. to £65; No. 3, white, £40 to £47 10s.; amber leaf, £37 10s.; cleaned amber sorts, £20; brown to amber leaf, £15; red leaf, £12 to £14; boggy, £8 to £10 per cwt., ex store.

TURMERIC.—At the moment spot holders of Madras finger and Rajapore are not quoting.

WAXES.—Spot market firm, prices adjusted. No shipment prices. BEES': Dar-es-Salaam, spot, 112s. 6d.; Benguela, 100s., in bond; Conakry, 100s., in bond; Japanese spot, 87s. 6d., duty paid; for first three brands. Madagascar, F.d.e., 102s. 6d., duty paid. CARNAUBA.—Fatty grey, spot, 170s. to 175s.; Chalky grey, spot, 162s. 6d. to 165s.; Primeira, spot, good quality, 260s. to 270s.; Mediana, spot, 190s.

Essential and Expressed Oils, Etc.

VALUES of these products continue to be adjusted on account of the increased cost of securing fresh supplies when the shipment markets open. Holders of stocks are limiting their sales as far as possible. Prices are firm as quoted, and business is of small volume.

ALMOND.—English-made, cwt. lots, 2s. 9d.; smaller parcels, up to 3s. 3d. per lb.; foreign, cwt. lots, 3s.; smaller parcels, up to 3s. 6d. per lb. French, bitter, 6s. 6d. to 7s. per lb.

ANISE (STAR).—Demand continues: prices adjusted. Spot, leads, 3s., 3s. 10½d. to 4s.; tins, 3s. 9d.; drums, 3s. 7½d. per lb., ex store; shipments nominal.

AVOCADO PEAR.—Californian oil available at 50s. to 55s. per gallon, as to quantity.

BAY.—Spot values adjusted to 4s. 6d. to 5s. 3d. per lb., as to quantity, in cases.

BERGAMOT.—Spot value from first hands is now 18s. per lb., ex store; shipment, when available, would be 18s. per lb. c.i.f.

CARAWAY.—Further adjustment of prices for Dutch, which vary with exchange rate: Dutch rectified, from about 9s.; crude, from 8s. 6d. per lb., landed and duty paid. Russian double-distilled, about 8s. 9d. per lb., as to quantity.

CASSIA.—Prices steady at 3s. 6d. to 3s. 7½d. per lb. in leads and 3s. 4½d. per lb. in drums, spot.

CEDARWOOD.—American adjusted on exchange: African, in drums, 1s. 4½d.; smaller packages, up to 1s. 7½d. per lb. American, in drums, 1s. 3d.; smaller packages, up to 1s. 6d.

CINNAMON LEAF.—Spot values for repacked oil in limited quantities is now about 3s. to 3s. 4½d. per lb., as to quantity.

CITRONELLA.—Steady demand, prices firm: Ceylon, spot, drums, around 2s.; smaller parcels, up to 2s. 6d.; Java, spot, drums, 2s. 3d.; smaller parcels, up to 2s. 7½d.; shipment markets nominal.

CLOVE.—Prices adjusted: Madagascar, spot, drums, 4s. per lb., if available; smaller parcels, up to 4s. 6d. English distilled, 5s. 6d. nominal.

EUCALYPTUS.—Market is firm: shipment prices nominal: Spanish, if available, about 2s. per lb., c.i.f., as to packing. Australian, 70 to 75 per cent., tins, 2s.; drums, 1s. 10½d.; 80 to 85 per cent., tins 2s. 4½d. per lb. ex store; higher prices for smaller lots.

GERANIUM.—Prices adjusted on exchange: shipment markets nominal: Bourbon, spot, about 12s. 6d.; Algerian, spot, from 13s.

HO (SHU).—Nominal on spot with no bulk supplies and no shipment quotations.

JUNIPER BERRY.—Prices adjusted: Spot now about 3s. 9d. to 4s. 6d. per lb. as to quantity and seller.

LEMON.—Spot holders of genuine Sicilian oil are reserved, their idea of values being about 13s. 6d. to 15s. per lb. There are no shipment quotations but it is anticipated that business in this market may re-open without undue delay. Californian oil is nominal.

LEMONGRASS.—Spot values adjusted; shipment nominal: Spot, from 2s. 3d. to 2s. 6d., as to quantity.

LIME.—Fair business; prices adjusted: West Indian, distilled, 16s. 9d. to 17s. 6d. per lb., as to quantity and packing.

MANDARIN.—Spot value adjusted: spot, about 16s. 6d. to 17s. 6d. per lb., as to quality.

NEROLI.—Spot supplies are now quoted in the region of 18s. to 20s. per oz., landed, for new-crop oil.

LINSEED OIL (RAW, NAKED).—No market, values nominal at £30 per ton, ex Hull.

NUTMEG.—Dearer on exchange; no shipment quotations: Dutch and American, from 6s. to 6s. 9d. per lb. as to quantity.

ORANGE.—Good demand, prices adjusted: French Guinea, in drums, around 3s. 6d. per lb., with re-packed oil in tins up to 4s.; shipment, nominal, Californian, spot, in small drums or two or more cases, 58 cents per lb., ex store.

PEPPERMINT.—Good demand on spot. Japanese very firm at 5s. 3d. to 5s. 6d. per lb., ex store. Some shipment offers from Japan have been received this week ranging from 4s. 7½d. up to 6s. per lb., c.i.f. It is reported that orders have been cabled out at the lower figures, but no confirmation has yet been received.

PALMAROSA.—Spot prices again adjusted: Spot, about 10s. 6d. to 11s. 6d. per lb.; shipment, nominal.

PATCHOULI.—Spot, Singapore, adjusted to 14s.; Seychelles, 11s. to 11s. 6d. per lb.

PETITGRAIN.—Prices adjusted: spot, cases, now quoted from about 4s. per lb.; shipment, nominal.

ROSEMARY.—Spanish is quoted at 3s. 6d. to 3s. 9d. per lb., as to quality and quantity. Tunis, 3s. 1½d. to 3s. 3d. per lb., landed, as to quantity.

SANDALWOOD.—All East Indian oil is now quoted in the region of 21s. per lb. for one case, spot. West Indian, about 8s. 6d. per lb. Australian is nominally unchanged at 15s. 3d. per lb. for 7-lb. tins, one case at 14s. 9d., and five cases at 14s. 6d. per lb.

SASSAFRAS.—Prices again adjusted: best quality oil, 4s. 9d. to 5s. 3d. per lb., as to quantity. Other grades at less.

SPEARMINT.—Adjusted on exchange: U.S.P. oil, spot, about 10s. to 10s. 6d. per lb.

SPIKE.—Spanish quoted at 6s. 3d. to 6s. 9d. per lb., ex store, as to quantity and quality. Blended oils at cheaper rates.

TURPENTINE.—No market, values nominal. Spot, London, 50s. nominal, Hull, 75s., Liverpool nominal. Details of London stocks not available.

VETIVERT.—Bourbon quoted on the spot at 17s. to 18s.; Java 11s. 6d. to 12s. 3d. at 10s. to 10s. 6d. per lb., as to quantity.

WORMSEED.—Adjusted on exchange: U.S.P. oil, spot, 12s. to 13s.; shipment, nominal.



RETAIL
2/- size (4 ozs.)
3/6 " (8 ")
6/- " (16 ")

John Bell
BRAND

TRADE
13/6 doz. bottles
24/- " "
40/- " "

TONIC-PHOSPHATES

JOHN BELL, HILLS & LUCAS LTD.
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THE CHEMIST AND DRUGGIST

VOL. CXXXI

September 16, 1939

NO. 3110

CONTENTS

PAGE	PAGE
After Eighty Years 314	News of the Week 293
Business Changes 293	Personalities 297
Christmas Goods Review .. 305	Pharmaceutical Society of Great Britain:—
Company News 298	Emergency Council Meeting .. 297
Deaths 297	North British Branch .. 297
Editorial Articles:—	Quinine and Cinchona Production 313
Conditions in the Chemical Industry 303	Retrospect 316
Our Christmas Trade Number 303	Scottish Notes 294
Irish Notes 293	Topical Reflections 294
Marriages 297	Trade Notes 298
Miscellaneous Inquiries .. 316	Trade Report 299
New Laboratories at Loughborough 304	War-time Notices 295

Conditions in the Chemical Industry

DURING the past two weeks the chemical trade and industry, in common with practically all other branches of commerce and industrial activity, have had to commence to adjust themselves to the new conditions under which business is to be carried on. The Government has lost no time in issuing Orders and special legislation aimed at promoting the best interests of the country. Talk of restriction of trade is sometimes heard, and the public may wonder why certain instructions and prohibitions are necessary, yet actually there is behind each Order or new piece of legislation a good reason. Though they may be prejudicial to individual trading communities, such enactments are necessary for the safety of the nation and the armed forces. Nevertheless, we are convinced the authorities hold strongly the view that, even in wartime, industry and commerce should be permitted the fullest scope to function that is compatible with national interests.

One of the first restrictions, almost automatic upon the declaration of war, was the prohibition of trading with the enemy. Provision was made for imposing severe penalties on offenders, but the Act permits receipt of payment for commercial obligations fulfilled prior to hostilities. Enemy property and goods in this country are to be put in the hands of trustees appointed under the Act. Two of the most important decrees affecting trade are the Control of Export and the Restrictions on Imports issued by the Board of Trade. We publish in this issue lists of goods of interest to the chemical and allied trades which may only be (i) exported or (ii) imported. In the case of imports, licences are granted, under certain conditions, to firms which can satisfy the Import Licensing Department that they have regularly handled similar merchandise in the past. Any prohibited goods shown to have been shipped prior to September 5 will be permitted to be landed without licence. For the time being no import licences will be granted in any circumstances for a certain limited number of goods. The object behind the import restrictions is to avoid waste of freight space on luxury articles and non-essentials. The limitation of exports, while ensuring that shipping will be used only for national purposes, is chiefly aimed at conserving stocks in this country and avoiding leakage, via neutral countries, to the enemy.

In commercial circles it is pleasing to be able to record that neither manufacturers nor merchants are enforcing cancellation of contracts for delivery of goods on account of the outbreak of war. Many leading firms have notified their customers that, while they cannot guarantee delivery and are under no obligation to do so, they intend to do their utmost to work on terms which may be mutually satisfactory. In other words, they are standing by their customers rather than holding to the strict wording of their contracts. There may be good grounds for some increase in prices over those stipulated in contracts—for example, compulsory insurance and higher costs of production—and these will have to be passed on to the consumer. But, from a general survey of the trade, it is evident that there is no serious shortage of essential products nor any sign of attempts to inflate prices. Considering the change of conditions, trade is progressing with a minimum of interruption.

Our Christmas Trade Number

THE current number of THE CHEMIST AND DRUGGIST is, in two respects, notable. In the first place, we are celebrating with this issue our eightieth birthday, the first number of THE CHEMIST AND DRUGGIST having been produced on September 15, 1859. We must apologise to our contributors and friends for some rather important changes in the make-up of this issue, but we feel sure that they will extend to us indulgence for changes in the form of the paper now so familiar to our readers which are unavoidable because of the abnormal times in which we are living and of the difficulties that are attending the production of the paper in war-time. In the second place, our issue is remarkable because, though in a reduced measure, we are maintaining our Christmas Trade number and are giving a survey of the trade in Christmas novelties which we regard as an indication of the determination of Britain to carry on business as usual.

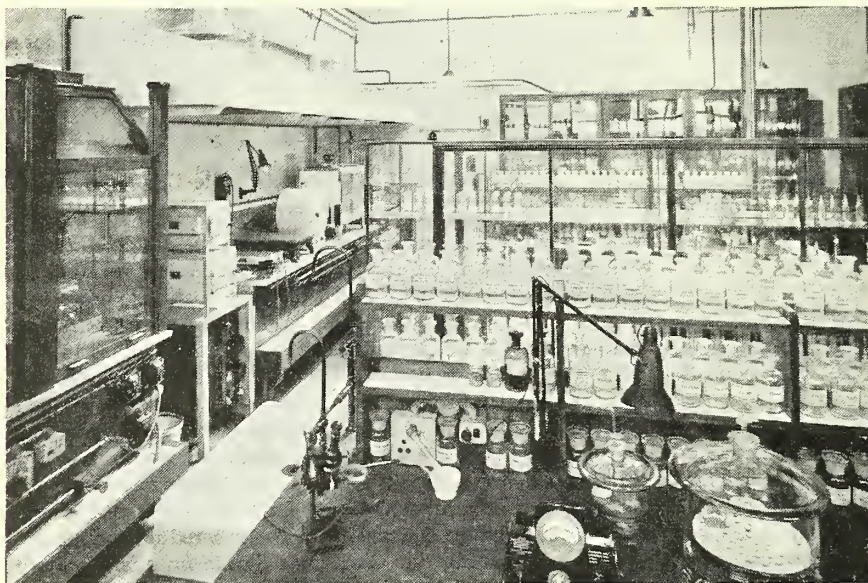
The trade in cosmetics and other articles associated with the toilet is too firmly founded and widespread to be submerged by the floods of warfare. Its fashions may, and do, change and the demands upon its products may alter with the new circumstances which have arisen, but the trade must, and does, go on. If we are not in error, the cosmetic trade will receive a considerable impetus in war days. To a far greater extent than ever before, women are engaged in stern and strenuous occupations, and as time passes, it is likely that many more will be caught up in the whirlpool of national service. Women who are so engaged expect, and are entitled to, the toilet articles to which they have been accustomed in peace times, and, in our opinion, the trade with our feminine customers will increase rather than diminish. Nor are women by any means the only customers at the chemist's toilet counter. The masculine toilet is even to-day a complicated business, requiring the things which the pharmacist is able to supply. Workers at home will be anxious to send gifts of all kinds to their friends on active service, and here is an opportunity of prime importance to the pharmacist.

The retail pharmacist has therefore a gradually widening scope for his business, and we think that this is no time in which to show timidity in advertising. The courageous producer and distributor who is prepared to "tell the world" of his wares and the varieties thereof is sure to reap the reward of his enterprise.

New Laboratories at Loughborough

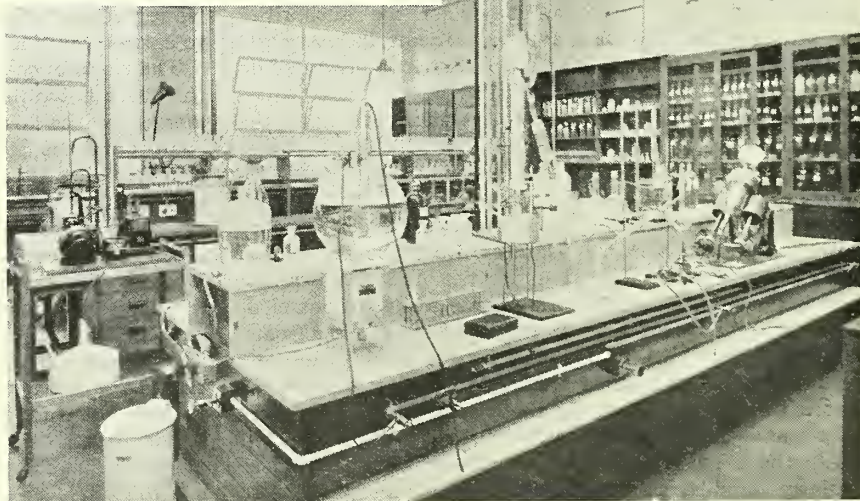
ALTHOUGH the official opening of the new research laboratories of Genatosan, Ltd., Loughborough, has been indefinitely postponed owing to the outbreak of hostilities, their construction has been completed and they are now in service. The laboratories have a frontage to the Derby Road, Loughborough, and extend to the edge of the Grand Union canal. The building is mainly of one storey, the exceptions being the compounding and bacteriological laboratories, which are situated on the first floor, and the experimental half-scale plant, which takes in both ground and first floors. Interior walls are of glazed brick up to a level of 4 ft. 6 in.; above the 4 ft. 6 in. level the

effected by channels attached to the fronts of the benches. Although vacuum supplies are fitted to all benches, a special mobile pump is provided for working at very low pressures. The laboratory equipment includes a stainless steel autoclave for working at high pressures and temperatures. A separate laboratory has been provided for semi-micro analysis; it has no outside communication and is therefore devoid of dust and draught disturbances. The ground-floor laboratories have their own store room and a spacious service room, in which all washing up and general preparative work is carried out. The bacteriological laboratory is divided into media-preparation room and laboratory proper. An inoculation bench is carried out in white cellulose finish, with black-and-white top and special microscope tables. A pilot-plant room has been designed for experimental work on fairly large batches of material. When satisfactory production has been obtained in the research laboratory, and after satisfactory pharmacological and biochemical tests have been made, experiments are carried out in the semi-scale plant, in order to ascertain the best method of manufacture. In the compounding room control-batches of flavouring essences and drugs are prepared for distribution to the various factory departments. The layout of the laboratories and design of equipment has been carried out by the chief chemist (Dr. G. M. Dyson, Ph.D., F.I.C., A.M.I. Chem.E.).



Sections of two of the laboratories

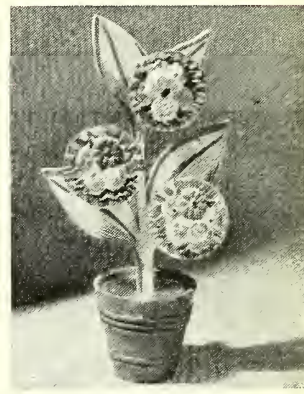
walls are of hard plaster, with acid- and fume-proof enamel finish. All pipe work is at a high level, brought down to bench or working level where required for use, and the pipe services are coloured according to the British Standard Specification for service pipes (e.g., red for steam, yellow for gas, etc.). The instrument and dark rooms have no outside illumination, and are provided with intermediate quartz spectrophotometer; photo-electric colorimeter; projection microscope; tintometer; pH meter; polarimeter with illuminated engraved glass scale and sodium lamp; refractometer; and polarograph, which automatically records falling electrode potential produced in various solutions. Damped automatic balances are used throughout the analytical laboratory, and push-button control has been installed for the fume-cupboard ventilation. The fume cupboards are provided with built-in plate-glass windows, with wire mesh armouring; each has its own strip light let into the top for easy observation of the interior. The fume cupboards and hoods have separate exhaust systems, with stainless steel impellor-fans. Another feature is the entire absence of interior metal work. There is also push-button control of the vacuum plant, which is housed in the basement. Each worker can put this in operation as required. The main function of the research laboratory is the preparation of new organic substances of therapeutic interest. The twin-level working benches are fireproof and of particular value in work involving distillations. The service outlets are carried on fascia boards, and drainage is



Scholarship Scheme Results

The following are the three chief prizewinners in the Genatosan scholarship scheme for the 1938-39 session: First prize, £50: Mr. D. Mulvey, 56 Tritonville Road, Sandymount, Dublin, Eire; Second prize, £25: Miss E. P. MacEwan, 13 Harrow Road, Leicester; Third prize, £10: Mr. J. C. Bloomfield, 147 Newcome Road, Fratton, Portsmouth. Four consolation prizes of £5 each were awarded to the following four students in recognition of the high standard of their work: Mr. R. W. S. Pitchford, Leigh-on-Sea; Mr. J. C. Baker, Markfield, Leicestershire; Miss E. Hindson, Workington; and Mr. D. G. Passman, Leeds.

NOVELTIES *for* *the Christmas Season*



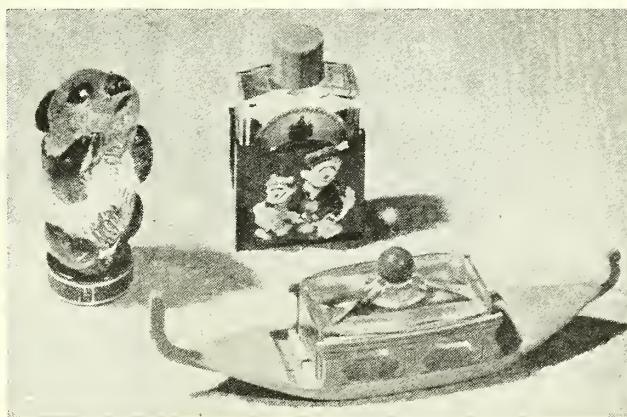
WITHOUT doubt there will be a large demand during the coming Christmas season for inexpensive novelties as gifts. Selected recent introductions are here illustrated.

S. MAW, SON & SONS, LTD., are offering an exceptional range of novelties in pottery, rubber, rubber-sponge and other materials, and chemists who have not received a copy of their illustrated Christmas catalogue should make sure they are on Messrs. Maw's mailing list.

The baby toilet presentation set by D. MAWDSLEY & CO., LTD., Manchester (No. 7), is taken from a range of gifts in the sundries department of this firm; in the same series are cellophane packs of cosmetic pads, puffs, etc., of which sample selections will be sent on request.

CUSSENS, SONS & CO., LTD., have, as usual, some attractive new items for the Christmas trade.

For many years POTTER & CLARKE, LTD., have made a speciality of pot-pourri. This year two jars of wholly English



1
Panda in rubber.
(S. MAW, SON &
SONS, LTD.)

2
Ivorytex novelty with
Mischief perfume and
twelve months' en-
gagement pad.
(SAVILLE PERFUM-
ERY, LTD.)

3
Empire pot-pourri
in novelty container.
(POTTER & CLARKE,
LTD.)

4
Novelty snowman
containing Vinolia
cologne or lavender.
(VINOLIA CO., LTD.)

5
Zenobia tree-pot con-
taining three Charmol
posy perfumes, each
in hand-painted bottle.
(ZENOBIA, LTD.)

6
Pot-pourri in decor-
ated jar. (PIESSE &
LUBIN-CUSSONS,
SONS, & CO., LTD.)

7
Baby toilet presenta-
tion set. (D. MAWD-
SLEY & CO., LTD.)

8
Three novelties: left,
Panda filled with Mit-
cham lavender water;
centre, match-box
holder bearing plaque
representing a silly
symphony character;
right, model gondola
carrying bottles of
Mitcham lavender
water. (POTTER &
MOORE, LTD.)

production have been introduced; entitled Margaret Rose and Empire, they are excellent examples of the potter's art and should prove ready sellers.

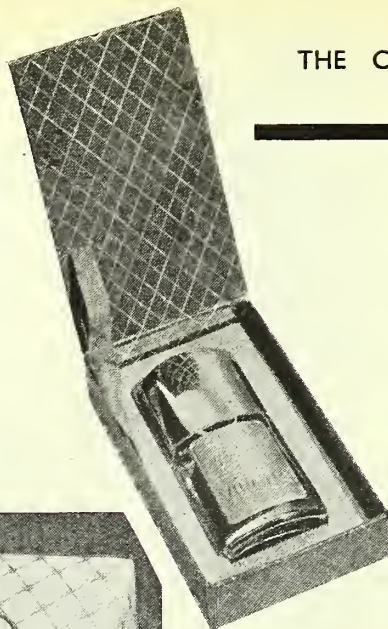
POTTER & MOORE, LTD., have made three new introductions which are illustrated on this page. A point of interest in connexion with the match-box holders is that the ornamental plaques were specially designed for Messrs. Potter & Moore by Mr. Walt Disney. Mickey Mouse, Donald Duck, Pluto and the

Water Babies are among the figures represented, and each holder contains a bottle of Mitcham lavender.

SAVILLE PERFUMERY, LTD., have sent details of the Mischief novelty shown (No. 2).

A feature of a new packing for Zenobia perfumes (ZENOBIA, LTD.) is a metal clip in the base of each case to prevent the bottle from falling out when the lid is lifted. A display stand is offered with orders to a minimum value of £3.

Tres Chic perfume in metal-capped vanity-bag bottle in hinged-lid box covered with blue and gold enamelled paper. (VINOLIA CO., LTD.)



A Selection of the Season's PERFUMERY

CHRISTMAS sales programmes of the leading perfumery manufacturers have been prepared in good time, and production is now well in hand. In the succeeding paragraphs notes are given of special presentation packings issued by some

well known makers; illustrations are included where possible.

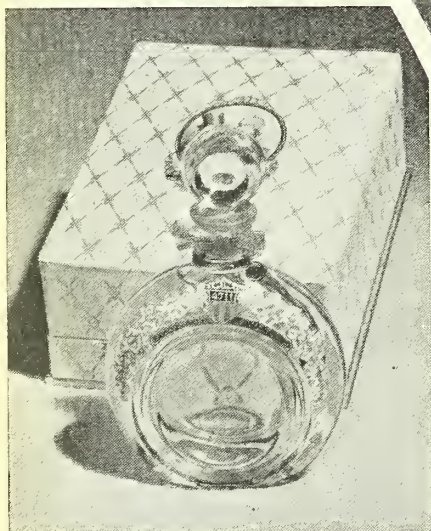
PARFUMS D'ORSAY.—A new perfume series introduced for the Christmas trade is a presentation of the well-known perfumes Belle de Jour, Milord, Dandy, Toujours Fidèle, and Trophée in a plain instead of a fancy bottle. The series has been introduced to meet the requirements of customers who desired the utmost value in the contents instead of having a substantial proportion of it represented in the container. It has been found possible to produce a 1½-oz. bottle at a moderate price. The box is itself an aid to sales.

ERASMIC CO., LTD.—Particulars have been received of two examples from the 1939 range of Erasmic gift caskets and a fully illustrated list is due to be sent out to the trade in late September. The items notified are a lady's casket containing two tablets of Peerless soap and flask of Peerless perfume; and a gentleman's casket containing brilliantine, shaving stick and refills.

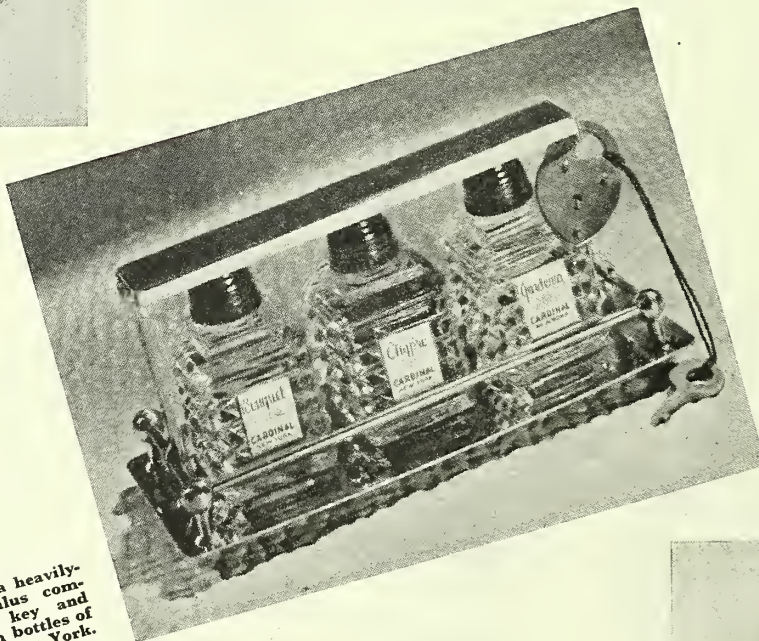
HOUBIGANT (PERFUMERY MARKETING CO.)—A new perfume, Transparence, has recently been introduced, for which the handsome display stand illustrated on next page has been prepared. The so-called "standard" sizes (with spray) are also available filled with Demi-jour, Floraison or Présence perfumes. Sachets have been prepared from the new perfume and dealers wishing to appreciate the new odour can no doubt obtain a few sachets from the makers.

McCLURE, YOUNG & Co., LTD.—The popularity of beauty outfits continues undiminished and the Diana Clare casket illustrated on next page should prove a ready seller this Christmas. It is admirably compact, and contains cleansing and foundation creams, skin food, and astringent lotion.

S. MAW, SON & SONS, LTD.—Not usually associated with

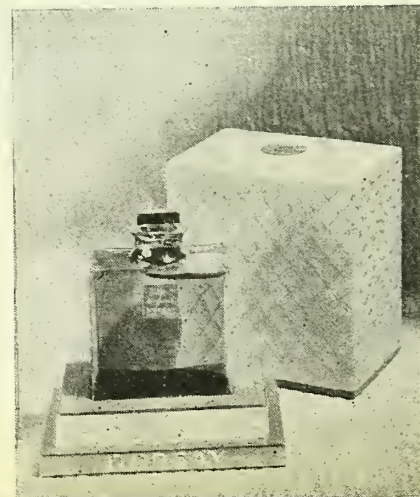


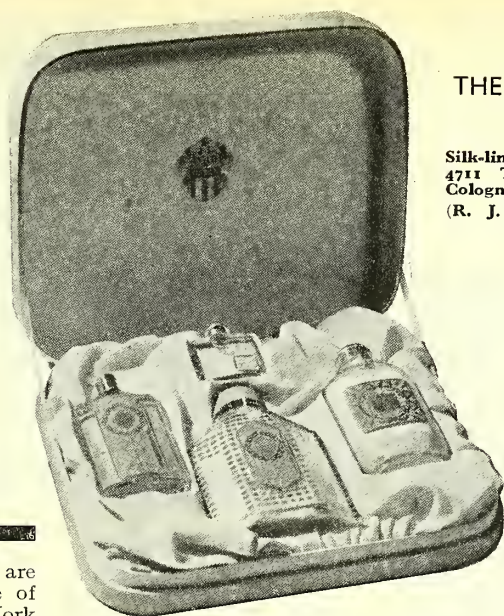
4711 "Famous Rhine" lavender water in stoppered decanter in handsome silk-lined presentation case. (R. J. REUTER CO., LTD.)



Tantalux perfume bar—a heavily-plated, miniature tantalus complete with lock and key and containing three 3-dram bottles of perfume by Cardinal, New York. (S. MAW, SON & SONS, LTD.)

D'Orsay perfume in plain bottle introduced in response to requests; available in one of the following perfumes: Belle de Jour, Milord, Dandy, Toujours Fidèle, Trophée. (PARFUMS D'ORSAY.)





Silk-lined fancy casket containing 4711 T o s c a perfume, eau-de-Cologne bath crystals and talcum. (R. J. REUTER CO., LTD.)

Beauty casket containing astringent lotion, cleansing cream foundation cream and skin food. (McCLURE, YOUNG & CO., LTD.)

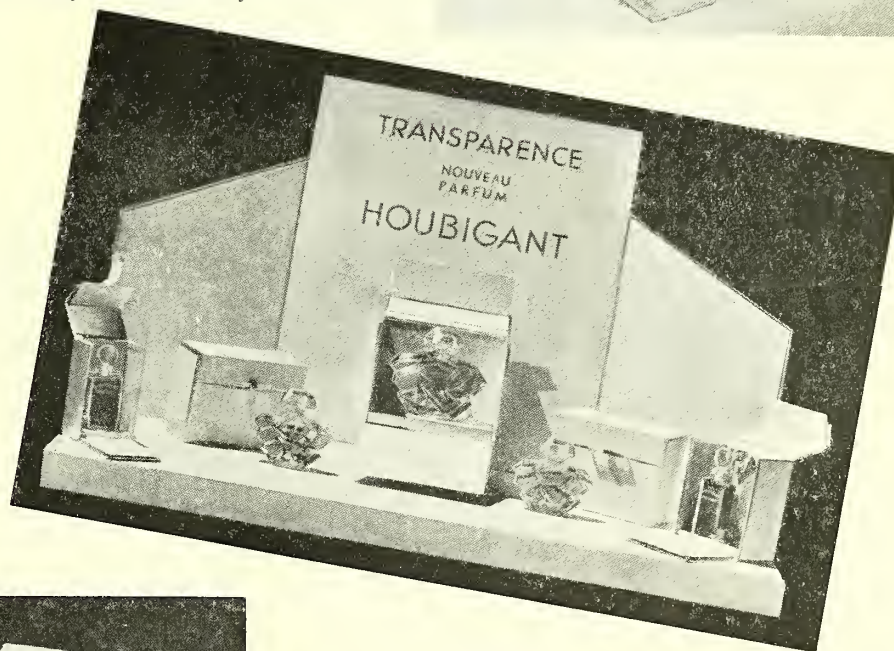
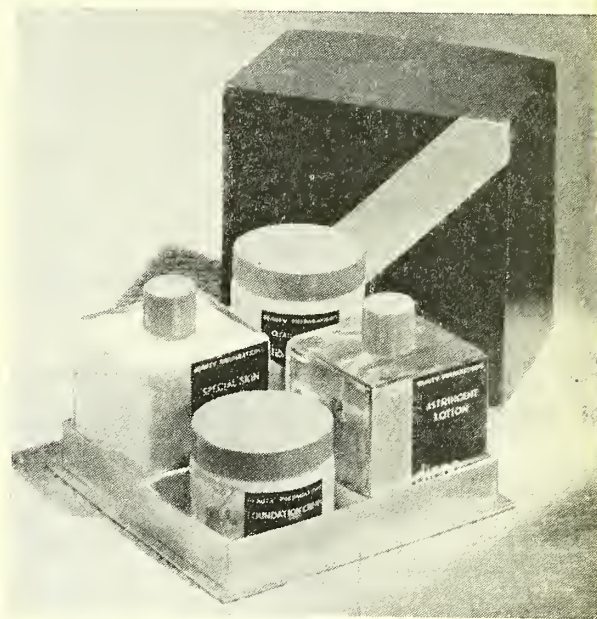
perfumery, Messrs. Maw are this year marketing some of the perfumes of a New York manufacturer: Cardinal. The padlocked tantalus shown on previous page presents three perfumes in a novel way. Messrs. Maw have also available a dainty range of sachets containing lavender or pot-pourri, and, of course, their usual comprehensive selection of powder bowls and puffs.

MORNY, LTD.—No examples were received in time to be illustrated, but a varied and extensive range of perfumery in cases has been prepared. The sets are covered with papers in two designs: Musicale, to mark the year of the London Musical Festival, and Empire, an attractive map design.

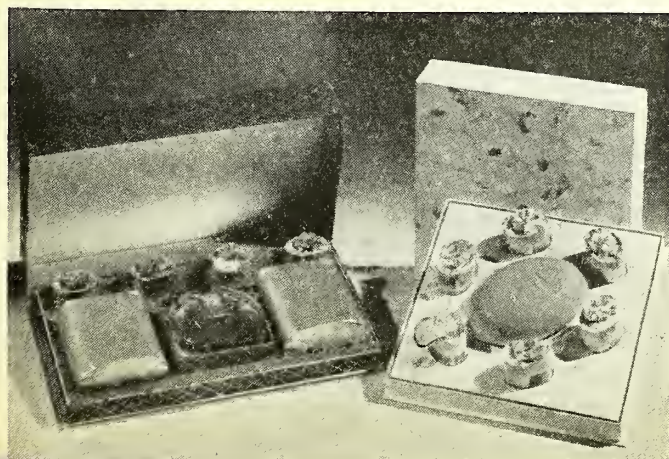
R. J. REUTER CO., LTD.—The 4711 series has been enriched with several additions, and a twenty-page illustrated catalogue has been prepared giving details of the full range, from which two examples have been selected for inclusion in this issue. In addition, there are the coffrets in great variety containing various combinations of 4711 specialities.

VINOLIA CO., LTD.—Two main series are available: the blue-and-gold, for which an elegant, cellulose-finished paper is employed as cover, and the Robb series, on which the cover paper used

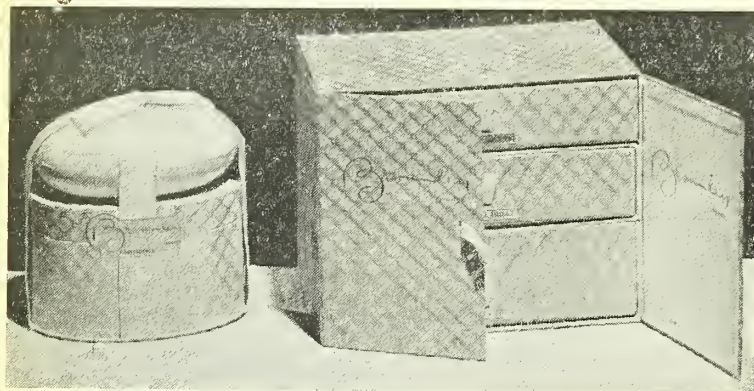
carries sketches of heads by this popular Vinolia artist, in colours of cerise and blue on gold-spangled ground. Both ranges are too large to be detailed in these columns, but it may be pointed out that the blue and gold series includes boxed soaps, men's sets and two coffrets in the Très Chic perfume series while the range covered with "modern beauties" paper includes mainly those coffrets containing bath soaps, bath salts and talcum powder. There is also a range of Vinolia baby gift boxes covered with pink and blue "quilted" paper. Early application should be made for the fully illustrated catalogue shortly to be issued by Vinolia, Ltd.



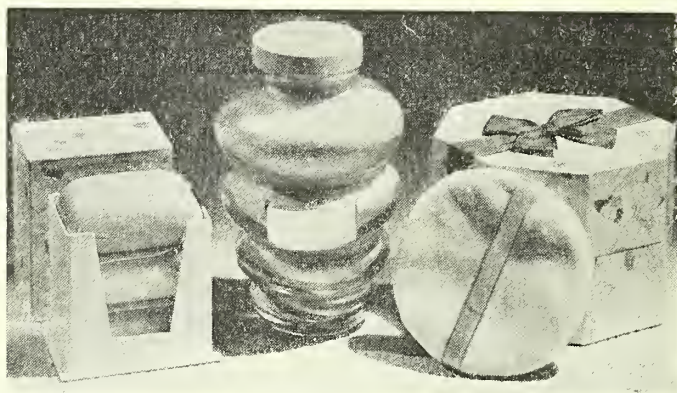
Houbigant's latest perfume series — "Transparence" — issued in "original" large and half sizes and in two "standard" sizes with spray; the standard sizes can be supplied filled with other recent perfumes such as Demi-Jour, Floraison or Présence. (THE PERFUMERY MARKETING CO.)



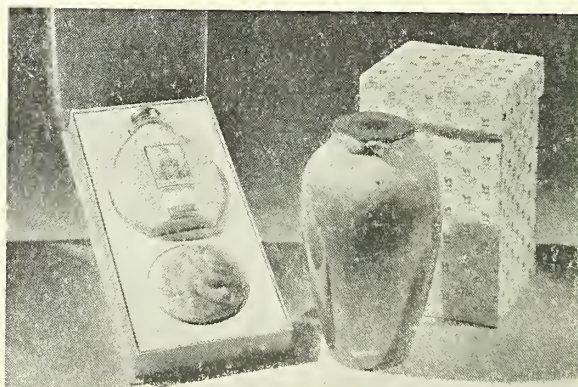
Casket containing two tablets of Très Chic soap, bakelite-capped bottle of Très Chic perfume, and four wrapped bath salts; coffret containing pastel-coloured bath oval with six powdered bath salts. (VINOLIA CO. LTD.)



"Toiletries-de-Luxe" set containing oval box of bath dusting powder and puff, to which a tablet of bath soap is ribboned; soap chest with three pull-out drawers, containing bath, toilet and guest sizes of turtle oil soap. (H. BRONNLEY & CO., LTD.)



Three pastel-coloured cushion-shaped tablets of Vinolia floral soap (lavender, rose or wallflower) in upright pedestal box; centre, Cologne, lavender or Très Chic bath salts in coloured, capped bottle; right, bath dusting powder in octagonal box. (VINOLIA CO., LTD.)



Maison Duval talcum powder and toilet soap in box. Vase containing eau-de-Cologne bath salts in decorated box. (PIESSE & LUBIN-CUSSONS, SONS & CO., LTD.)



"Butterfly" coffret containing bath crystals in Pavots d'Argent, le Jade, Feu Follet or Jean Marie Farina Cologne perfume. (ROGER & GALLET (LONDON), LTD.)

LUXURIES

IN recent years a good deal of persuasive advertising and display have been directed towards inducing customers to treat the bath as a matter of luxury. Bath salts, which were once sold loose or solely in utility packets, are now presented in containers of shapes, colours, and materials calculated to attract the eye. Considerable attention is also paid nowadays to the size, shape, and colour of the crystals themselves, while there are bath talcum powders, bath puffs, bath soaps and bath sponges each in special display packing.

H. BRONNLEY & Co., LTD., have introduced a number of bathroom novelties in which their turtle-oil soap is incorporated. Among them are a soap coffret containing six assorted perfume bath-size and three toilet-size tablets, in boxes of assorted colours of blue, green, and pink. In addition to the turtle-oil preparations, Bronnley's Wistaria series is also to be featured.

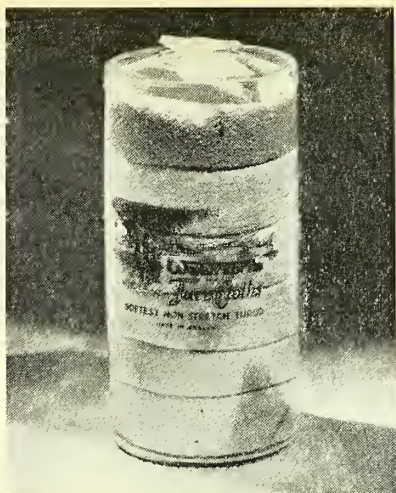
The appeal of coloured softeners seems now firmly established, and the forethought that has been put into the forms and packages in which Ebe preparations (EBE PRODUCTS, LTD.) are marketed ensures that little exercise of the arts of salesmanship is required.

D. & W. GIBBS, LTD., have brought out the handsome box of three tablets of cold-cream soap shown on this page, the container being given free during the Christmas season to the extent of one-third the quantity of soap ordered.



Limed-oak, hinged-lid presentation box of three tablets of Gibbs' cold-cream soap. (D. & W. GIBBS, LTD.)

Watersprite face cloths in attractive transparent display container. (SOLPORT BROS., LTD.)



for the BATH

McCLURE, YOUNG & CO., LTD., have sent examples of Christmas packs of bath crystals, of which the two illustrated on this page are representative. Many others are available.

PIESSE & LUBIN (CUSSENS, SONS & CO., LTD.) offer display boxes of talcum powder and rose soap (as shown) and of three rose toilet soaps, both in the Maison Duval series; also decorated vases of bath crystals in stout but attractive boxes.

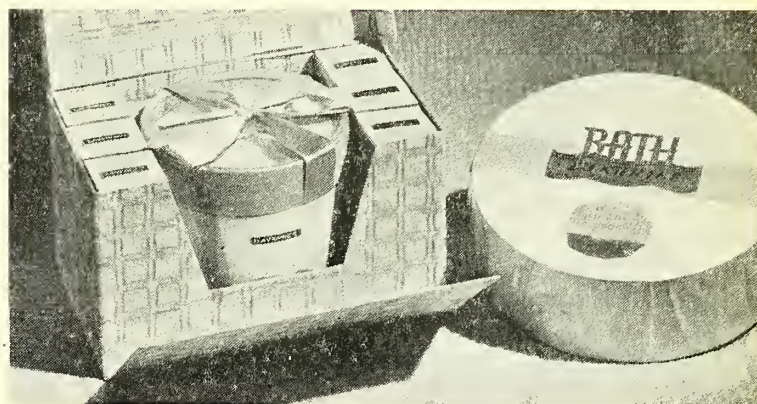
In addition to the boxed sponge and wall-vase illustrated on this page S. MAW, SON & SONS, LTD., offer other types of wall vases, porcelain animals filled with bath crystals, and a selection of sponge-bags and holdalls in a variety of shapes, sizes, patterns, and colours.

ROGER & GALLEY, LTD., have introduced a "Butterfly" series of bath luxuries, of which one example is shown. There are several variations of the coffret.

Attention is drawn to the well known Watersprite series of face cloths, which are being offered in handsome transparent drums, SOLPORT BROS., LTD., have their usual extensive selection of toilet holdalls and sponge bags in colourful and distinctive patterns.

Bath luxuries among the special Christmas packings offered by the VINOLIA CO., LTD., include bath ovals in box, dusting powder and puff; coloured bath salts, wrapped powdered bath salts; and gift boxes containing soap and perfume.

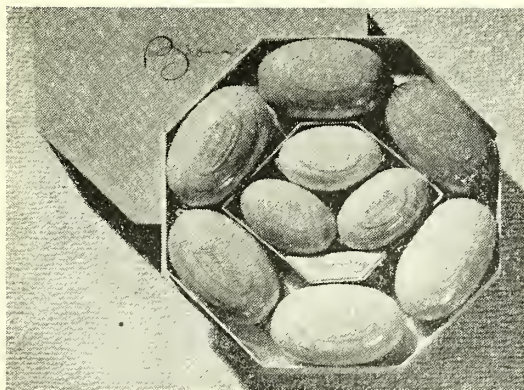
Set of three Ebe bath soaps in decorative container. (EBE PRODUCTS, LTD.)



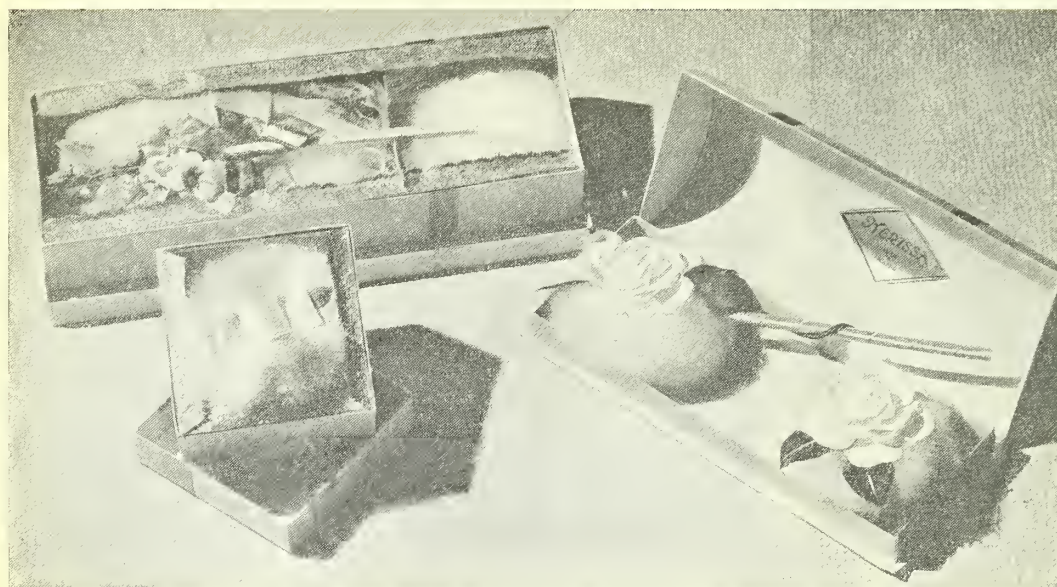
Jill Russell bath salts and talcum powder at novelty container; in right, flat wooden drum containing bath salts. (McCLURE, YOUNG & CO., LTD.)



Meritor natural honeycomb sponge in casket, covered green-decorated paper; at right, Meritor fancy wall vase of Beswick pottery filled with feathery bath crystals. Vase in matt-white finish only. (S. MAW, SON & SONS, LTD.)



Set of nine soaps in octagonal box, honey-suckle perfume. (H. BRONNLEY & CO., LTD.)



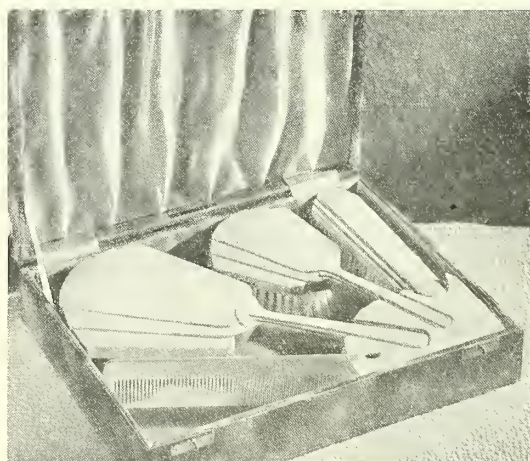
Powder puffs and sets in decorative cartons. (SOLPORT BROS., LTD.)

ON this page are illustrated a number of gift suggestions not included under any of the special headings on other pages. In the main the articles illustrated are such as would normally be ordered through the sundries department, though including some high-class toilet articles.

A most comprehensive selection of powder puffs—fur and



Star, Cosycot and British Warm hot-water bottles. The larger bottles are packed in cellophane printed bags enclosed in gift boxes ready for posting, greeting cards being included. (RELIA NCE RUBBER CO., LTD.)



Ladies' fitted case in leatherette, containing dressing comb, hairbrush, clothes brush and hand mirror in princess pattern; several colours available. (HALEX, LTD.)

Charlotte hot-water bottle covers, by which whole of bottle, including neck and stopper, is covered and fastened by means of zipp fastener or press studs; filling and emptying can be carried out without removing the cover. (C. J. HEWLETT & SON, LTD.)

GIFT

swansdown; handkerchief, handled, and decorative-backed—was sent in by SOLPORT BROS., LTD., but in the space available only three could be illustrated. The full range also includes Messrs. Solport's excellent handkerchief puffs, for which a display stand can be obtained by arrangement with the makers. Hot-water bottles are sure to be in great demand during the coming months and the RELIA NCE RUBBER Co., LTD., have prepared for their standard bottles special Christmas presentation boxes in which are included senders' greeting



cards so that each bottle can be forwarded as a gift direct from the shop at which it is bought. HALEX, LTD., have as usual a wide selection of ladies' and gentlemen's fitted dressing cases, all of which make impressive gifts. An example is illustrated. The use of unprotected hot-water bottles sometimes leads to accidental burns, and even the covers often supplied do not prevent this. To obviate the difficulty, C. J. HEWLETT & SON, LTD., introduced a variety of cover which completely covers both bottle and neck. Finished in corduroy or velour, these covers make excellent presents. In connexion with the Guitare lipstick and Guitare rouge the makers, BEAUTEX, LTD., are running throughout September a competition for which purchasers of Guitare rouge may enter, the prizes being fifty Guitare lipsticks. Retailers whose cus-



De-luxe Guitare lipsticks in display stand. (CHEMICAL & NATURAL PRODUCTS, LTD.)

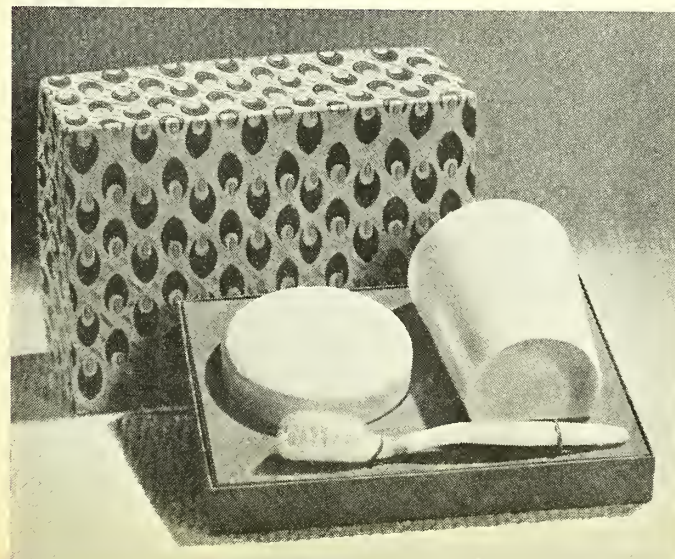
MISCELLANY

tomers become prize-winners qualify for the display stand shown on this page.

Present conditions have increased the demand for pocket torches to an unprecedented extent, and there has been some call for a torch that will stand up to rough usage. This demand has been met by PROVINCIAL INCANDESCENT FITTINGS CO., LTD., who have introduced a rubber-cushioned torch with unbreakable lens. It may be dropped without injury, is immune to vibration, and weather-proof. An illustration appears on this page.



Ebe bath flowers (varied colours) in transparent container. (EBE PRODUCTS, LTD.)

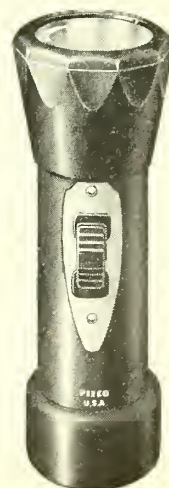


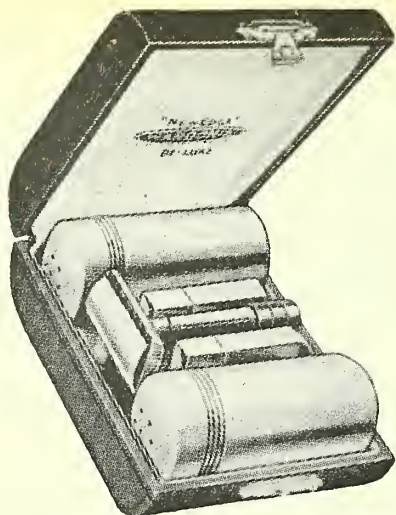
Gibbs' "art ivory" box containing dentifrice in white container, beaker, and toothbrush. (D. & W. GIBBS, LTD.)



Meritor packaged sponge mats for bath or boudoir, each mat in presentation box and the three boxed mats supplied in counter display unit. (S. MAW, SON & SONS, LTD.)

Durolite rubber-cushioned torch with unbreakable lens, non-rolling head and full focusing. Designed to stand rough use. (PROVINCIAL INCANDESCENT FITTINGS CO., LTD.)





"Travellers' de-luxe" shaving set in leatherette-covered, silk-and-plush-lined case containing Wardenia razor, ten blades, soap and brush in gilt containers slotted to hold all articles firmly. (THOMAS WARD & SONS, LTD.)



Special Christmas cartons for Gillette and Valet safety razors; the cartons fit over standard packs. (GILLETTE INDUSTRIES, LTD.)



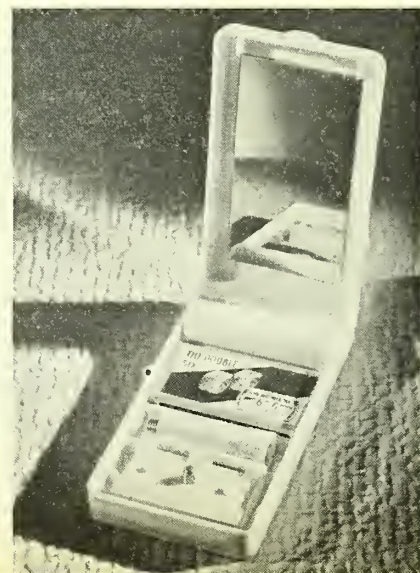
Viceroy lever-operated non-electric dry shaver, requiring no electric current, brush, soap, blades or water. (ROLLS RAZOR CO., LTD.)

For the MILITARY MAN



(Above) Set containing Vinolia shaving stick and solidified brilliantine in polished metal cases; the box is covered with enameled paper in the Vinolia blue-and-gold series. (VINOLIA CO., LTD.)

GIFTS for men will be much in demand this Christmas and we have selected for illustration a number which, by reason of their compactness, are likely to be specially suitable for military men, though equally acceptable to civilians. Attention is also drawn to the Pilot Ivory and Devon Ivory razor-sets of Thomas Ward & Sons, Ltd., which are described as "miracles of compactness." The first comprises razor and four blades and the second, razor and ten blades. The Vinolia set shown is one of several special such outfits issued by the makers for the Christmas trade.



Souplex vest-pocket razor set containing mirror, blades and folding razor. (SOUPLEX, LTD.)

Cinchona and Quinine Production

THE following details of the present position of the production of cinchona bark and quinine in Empire countries, other than India, are published in the Bulletin of the Imperial Institute, South Kensington, S.W.1 (Vol. XXXVII, No. 2).

Countries within the Empire, other than India, where the prospects of cinchona cultivation seem to be promising, are Tanganyika, the Cameroons under British Mandate, and Malaya. A summary of the position in these and in other Empire countries where the tree has been introduced is given in the following paragraphs. In addition it may be mentioned that at one time cinchona bark was produced in Mauritius, Fiji, and Jamaica, but the fall in price of quinine in the 80's killed the industry in these countries. The fact, however, that cinchona apparently succeeded there may be worth bearing in mind when considering possible countries for its cultivation. The climatic conditions in parts of British Guiana have also been regarded as suitable for the tree, but economic considerations would probably prevent the establishment of commercial cultivation in that region at the present time.

Burma

As a result of recommendations made by Colonel Gage in 1918, after his survey of the possibilities of development in India's production of quinine, plantations were started in the Tavoy District of Lower Burma, but in 1921 and 1922 these were practically destroyed by the heavy rains, and cultivation was transferred to the Mergui-District. The plantations consisted mainly of *C. Ledgeriana*, as it was found at an early stage that *succirubra* did not thrive under Burma conditions. For a few years the Mergui plantations made rapid progress and the outlook seemed promising, but it later became apparent that the site was by no means ideal for cinchona cultivation and that yields comparable with those obtained in Java could never be expected. The difficulty of bringing the plants through the dry season from November to February, coupled with the damage done by the heavy rains in the monsoon, presented a serious problem. Experimental cultivation in Upper Burma was advocated, but this plan never materialised. From 1931-32 onwards there was no further extension or development of the plantations, operations being restricted to maintaining the existing areas in good condition. Production of bark was to be gradually reduced in accordance with the change in the Government's policy. With the transference of the Mergui reserve to the Government of Burma in 1937 the plantations were closed down, as the Burma authorities had no wish to continue operations. All mature bark was stripped off and sent to the Mungpoo factory, Bengal. The quantity of bark handled in the years 1930-31-32 is given below in comparison with 1934-35-36 after the restriction scheme—

1930-31..	.. 131,533 lb.	1934-35..	.. 64,429 lb.
1931-32..	.. 177,061 lb.	1935-36..	.. 81,772 lb.

Cameroons under British Mandate

Cinchona plots were started by the Germans over 30 years ago on the Cameroon Mountain with seeds and seedlings from good yielding Java trees. In 1924 the species then present, as determined by Kew, were *C. near micrantha*, *C. Ledgeriana*, *C. succirubra* and *C. calisaya*. Four samples of bark collected from different plots, which were sent to the Imperial Institute for examination in 1918, proved to be of satisfactory quality for the manufacture of quinine, yielding from 6.7 to 8.2 per cent. of quinine sulphate. Further trials have since been made by the Department of Agriculture. Seed of *C. Ledgeriana* and *C. succirubra* from Java was sown by the Department of Agriculture in 1927 at the Botanic Gardens, Victoria, and the seedlings were planted out in 1929. The Ledger plants are reported not to have done so well as the *succirubra*, and it may be found necessary to graft that species on the latter under the conditions obtaining in the Cameroons. Further evidence seems desirable, however, on this point, as the original Ledger plants are now probably over-mature and those planted in 1929 were put out in an open type of country without the support of forest which is so necessary to the successful growth of cinchona. It is considered that there are large areas on the Cameroon

Mountain which should be suitable for the cultivation of cinchona for totaquina production, but in spite of earlier results it seems doubtful whether satisfactory yields of quinine can be obtained in this region. In view of this and of the unconvincing results of trials with Indian-made totaquina carried out by the medical authorities in Nigeria, it is proposed to discontinue the experimental cultivation of cinchona in the Cameroons area.

Kenya

There is at present no direct evidence as to the suitability of Kenya for cinchona cultivation, but there may be areas in the Highlands where the trees will succeed. The questions has been taken up by the Department of Agriculture, and seedlings of *C. Ledgeriana* and *C. succirubra* are being raised in Government nurseries for issue to planters in the Sotik and Kericho areas for trial and possibly also to natives elsewhere in humid areas. New experimental plantings of Indian *Ledgeriana* seed, obtained through Amani, have recently been started in the Nandi district and at Kakamega under the supervision of officers of the Agricultural Department in collaboration with the Forestry Department. The nurseries established at Sotik and Meru have proved too cold and exposed for rearing the young plants and have accordingly been given up.

Tanganyika

In this territory the conditions obtaining in the Usambara district appear to be particularly suitable for cinchona. Plantations were made there by the Germans 30 to 35 years ago on Bomolo Hall, at what is now the East African Agricultural Research Station. The kinds planted include *C. Ledgeriana*, *C. succirubra*, *C. robusta* and a hybrid (*C. Ledgeriana* × *C. succirubra*). Small shipments of bark were sent to Germany in 1909 and 1912, and during the war the plantations were able to supply all the quinine needed by the German troops in East Africa and some was shipped also to Germany.

In 1918 samples of bark collected from the four types of tree at Amani were sent to the Imperial Institute for examination. That from the hybrid tree proved to be of specially good quality, giving a yield of 11.21 per cent. of quinine sulphate, showing it to be fully equal to the finest Ledger bark from Java. Small consignments were subsequently sent to this country for sale and realised satisfactory prices. In addition to these German plantations an area of 5½ acres was planted on the Drachenberg Plantation in the early twenties with Ledger and hybrid seedlings. Lately further development has taken place at Amani, and the 38.4 acres under cinchona at Kwamkoro Estate were to be increased to 100 acres during 1938. It was proposed that this land should be planted with *C. Ledgeriana* as far as seed is available and the remaining area with *C. succirubra* and a hybrid (*C. Ledgeriana* × *C. succirubra*). It is hoped by this means to obtain still further evidence as to the commercial prospects of the crop in this region. Cinchona is also to be found on certain private estates in Usambara. At Ngamba Estate, E. Usambara, there are about 75 acres, and at Balangai Estate, W. Usambara, about 50 acres. Both these areas were planted by the Germans and harvesting of the bark has taken place fairly regularly. Cinchona is also grown on Mazumbi Estate and at Lushote.

Uganda

Cinchona is also the subject of trial in Uganda. A small plantation of *C. Ledgeriana* was started by the Forest Department at their Arboretum at Entebbe in 1921. The growth was very satisfactory, and in 1926 the bark was stripped from some of the trees. A sample of this bark examined at the Imperial Institute in 1927 gave a yield of 5.05 per cent. of quinine sulphate, which is quite satisfactory for five-year-old bark. More recent analyses are understood to have given a higher quinine content. There are also experimental plantations of *Ledgeriana* hybrids at various other places in Uganda at elevations ranging from 3,800 to 5,500 ft. A sample of hybrid bark grown at Bukalasa, also examined at the Imperial Institute in 1927, furnished 3.72 per cent. of quinine sulphate.

(To be continued)

After Eighty Years

ON September 15, 1859, appeared the first issue of THE CHEMIST AND DRUGGIST, begun as a monthly octavo publication. The Britain of 1859 has become sufficiently remote to make it of interest to indicate the original environment of this journal. During the year the Indian Mutiny was suppressed, the Volunteer movement inaugurated, and the construction of the Suez Canal begun. In the same year Tennyson's "Idylls of the King," Eliot's "Adam Bede" and Meredith's "Richard Feverel" were published, and Macaulay ended his brilliant career. The Government of the Earl of Derby suffered defeat, and with it went a Sale of Poisons Bill, introduced as a sequel to the well-known tragedy at Bradford, where in the previous year twenty people lost their lives by arsenical poisoning. Jacob Bell died in June 1859, during a term of office as President of the Pharmaceutical Society, leaving several pictures to the nation and a sum of money to the Society. Agriculture was so much in the ascendant that the Registrar-General for England and Wales incautiously wrote: "England is a great agricultural country, and she will remain a great agricultural country to the end of time."

Contemporary evidence of the conditions of life in the London of the period is to be found in entertaining variety in books and magazines. We need only instance facilities for passenger transport, a well-written account of which appeared in "London Society" for May 1862. From it we learn that one genuine hackney coach still survived; that buses had increased in number to about 1,500; that there was a good passenger service on the Thames; and that the hansom cab was "the favourite of fast men, and the terror of women and children at the street crossings." A map accompanying the article shows that five railway termini now known as Cannon Street, Broad Street, Charing Cross, St. Pancras and Marylebone were non-existent, and that the construction of what afterwards became the Inner Circle was in its earliest stage. City men—who, it appeared, had discarded carpet bags in favour of small black bags—found it difficult to get to and from Paddington Station. Recalling the fashions of the eighteen-fifties, it is not surprising to find THE CHEMIST AND DRUGGIST, in an editorial article dealing with the treatment of burns and with fireproofing solutions, adding a warning against the risk caused by the wearing of the crinoline: "When a garment is distended so far that the wearer is unconscious of what may be passing at its outer extremity, a new system of personal insurance against fire is necessary." However quaint the subject may appear now, the Central Middlesex Coroner of that day attributed eighteen out of twenty-three recently recorded cases of death by burning to clothes catching fire.

Our First Number

A replica of "Vol. I—No. 1" was enclosed in our Special Issue of July 31, 1909, on which occasion the early history of the journal was narrated with the aid of first-hand information. The contents of this first number, comprising title-page, fifteen pages of literary contents, and sixty-four pages of advertisements, are still worth examination. Looking through its pages, one is struck by the sureness with which the founders anticipated the wants of its readers. Within that limited compass it contained news, an editorial article, a trade report with current prices of drugs and chemicals, correspondence, articles of general interest (including an illustrated one), and excerpts from contemporary journals. Thus the foundations of success were well and truly laid. One of these features, the publication of market prices from Mincing Lane, occasioned resentment in certain quarters at first, but soon justified itself and became accepted as part of the established order of things.

The advertisements in this number have a twofold interest. On the one hand they include the names of several firms whose names are well known to-day—Ford, Shapland & Co., Cox, Orridge, Condy, John Bell & Co., Savory & Moore, May & Baker, Francis Newberry & Sons, Goddard, Powell, Robinson & Son(s), W. J. Bush & Co., William Mather, S. Barnett and a few more. On the other hand some of the announcements link us with the past. A member of the Pharmaceutical Society advertises with the addition "Established 1815"; Allen & Co., of Charterhouse Square, E.C., offer pulv. ext. coloc. co., P.L., 1836, at 14s. per lb.; calves' teats, in "any quantity," are wanted "for placing in the Spirit"; and the introduction of quinine wine is attributed

to "Thomas J. Hutchinson, Esq., Senior Surgeon to S.S. *Pleid*, a gentleman of great professional acquirements, and now Her Britannic Majesty's Consul for the Bight of Biafra and Fernando Po."

Continuous Expansion

It would be tedious to enumerate in detail the frequent additions in size and in scope that this journal has received during the past eighty years. In January 1864, the octavo form gave place to a quarto with text in two columns each measuring 9 in. by 3 in. (since expanded to 9 in. by 3½ in.), a gain equivalent to about four of the former pages. The first number of that volume contained sixteen literary pages and thirty-two of advertisements. One of its editorial articles recorded with satisfaction the fact that the British Pharmaceutical Conference, inaugurated at Newcastle during the previous year, had "now taken up its position amongst the numerous scientific societies of which this country can boast," with a membership of more than 150. The literary pages were increased to thirty-two in 1868, and eventually to a monthly average of sixty-four. The distinctive cover was added in 1873. The change from monthly to weekly publication, which had been before Messrs. Morgan Brothers, the founders, from an early period, was effected in 1886. The first complete volume of weekly numbers (July–December, 1886) contained 786 pages of literary text: the number of such pages in a volume has occasionally exceeded 1,000. By 1886 our circulation had extended to virtually all parts of the world; and at the date of our jubilee in 1909 the official recognition of seventeen societies in the Dominions and Colonies had been accorded to us. Mr. W. G. Piper, a member of our London staff, became the first editor of "The Chemist and Druggist of Australia," a paper published in Melbourne and eventually taken over by an Australian newspaper company.

With this expansion in size has come the addition of many features, suggested by the needs of pharmacy and its allied industries and by the increasing specialisation of journalism. The preparation of the contents of a technical newspaper, and in particular of THE CHEMIST AND DRUGGIST, is an intricate task possible only to trained journalists; and some idea of its complexity was given in our Annual Special Issue of June 30, 1923. Here, as in the preceding paragraph, we prefer to summarise rather than to catalogue. The six brothers who originally constituted the firm of proprietors had so many points of contact with the outer world that from the first the Editor was able to enlist the collaboration of contributors of the standing of John Hollingshead, C. W. Quin, W. B. Tegetmeier and Lionel Brough. It thus came about that such events as the Exhibition of 1862 were brilliantly described, and that manufacturing houses formed a subject for articles written by men possessed of technical knowledge. *The Chemist and Druggist Diary*, evolved in 1868 from the older "Chemist and Druggist Almanack," included articles by experts of the rank of W. A. Tilden and John Atfield. Appearing at first as a crown octavo of 128 pages, it has expanded to its present size. About the same time arose the "Corner for Students," a means of testing chemical knowledge used by many aspirants who have since distinguished themselves in more than one sphere.

Of our special issues the Educational Number, originated in 1871 with less than two columns of the kind of classified information that now annually fills nearly thirty pages, is the earliest. While THE CHEMIST AND DRUGGIST was a monthly publication, a custom arose of distinguishing in some way the issues for January and July from the other ten; and when the change to weekly numbers came in 1886, the last issues of those two months were reserved for special features. War restrictions on the supply and the quality of paper compelled the suspension of this feature in 1917: on its resumption in 1920 it was decided to concentrate on one Annual Special Issue at the end of June and to take advantage of modern developments in printing. The specially designed covers for these annual issues, with their attractive use of colour, have been in use since 1897. In recent years each volume has been enriched by issues planned with particular reference to perfumery, photographic apparatus and veterinary requirements. In these, as indeed in many other issues, illustrations have come to play an increasing part in the general scheme. As a matter of record it may be mentioned that the first whole-page lithographed portrait appeared in our issue of

February 15, 1870, and that the humorous sketches of the late Fred Reynolds, from 1883 till his death in 1907, were a unique source of interest.

The Text-Books

The series of text-books published in THE CHEMIST AND DRUGGIST offices began in 1888 with "The Art of Dispensing," the subject-matter of which had been foreshadowed in articles in our *Diaries* for the years 1880 and 1885. The second of these articles is unusually distinctive by reason of the fact that preliminary proofs were submitted to twelve British pharmaceutical chemists and that their annotations were incorporated, with due acknowledgement, in the text. Among this distinguished jury were A. W. Gerrard, Thomas Greenish, Joseph Ince, Thomas Maben, Peter MacEwan, William Martindale and Barnard S. Proctor. Hager's "Technik der Pharmaceutischen Receptur" was also laid under contribution. One result of this multiform collaboration was that opposing views found expression without restraint, each being signed with the name or initials of the expert concerned: thus, a remark on potassium acetate was followed by "Certainly not.—T. G." in square brackets. When, however, Mr. MacEwan took the articles in hand for adaptation to the purposes of a book, these occasionally conflicting principles and rules were reconciled.

The late E. N. Alpe's "Handy Book of Medicine Stamp Duty" (now out of print) appeared soon after, and was followed at brief intervals by "Veterinary Counter Practice," "Pharmaceutical Formulas," "Diseases and Remedies," "The Chemist's Dictionary of Medical Terms," and other books of the series. While it is unnecessary to relate on this occasion the origin and development of each of these books, a special interest attaches to "Pharmaceutical Formulas," first compiled by Mr. MacEwan, as the outcome of replies to generations of correspondents in search of formulas that they were unable to find. In the preface to the first edition, published in 1898, the laborious nature of the task of collating "the best of the replies [to correspondents] in fifty volumes" is indicated. Some of the formulas proposed for admission to the book were, in fact, found on trial to be impracticable. This process of sifting grain from chaff has gone on ever since, and in the latest edition it was found desirable to divide the book into two volumes. "The Art of Dispensing" is now in its eleventh edition, and "Pharmaceutical Formulas" in its tenth.

Expert Guidance

As we mentioned in a previous survey of our records, community of idea and continuity of policy were maintained from the outset in all Messrs. Morgan Brothers' publications. The last page of our first issue contained an announcement of their removal from 1 Jewin Crescent to the corner of Cannon Street and Bow Lane; eight years later, their building being required for an underground railway station, they took the premises at 42 Cannon Street, familiar throughout the world as their headquarters for more than sixty years. In 1919 the firm was converted into a private limited liability company; ten years later a new company was formed by amalgamation with the proprietors of "The Engineer" (founded in 1856), and in 1930 the two journals and "The Ironmonger" were removed to the present convenient building at 28 Essex Street, W.C.2. The fewness of these changes has been a factor in establishing the tradition, and with it the prosperity, of THE CHEMIST AND DRUGGIST. Each of the Editors and Publishers to whom the direction of the paper has been entrusted during the past eighty years has contributed to its welfare. Mr. John Cargill Brough, F.C.S. (who, incidentally, was a founder of the Savage Club), was appointed, at the age of twenty-five, as the first salaried Editor. His health, never robust, rendered his resignation necessary in 1870. Mr. Alfred Charles Wootton, Ph.C., a member of the staff since 1868, succeeded him. Mr. Wootton remained in the chair till June 1899, and during that long period introduced various features previously unknown. In 1886, for instance, he sent out 10,000 voting papers requesting views on a Shop Hours Bill then before Parliament; and he followed this departure with an analysis of 10,000 prescriptions. A few weeks after his retirement he became the first contributor of the weekly "Observations and Reflections," now entitled "Topical Reflections."

For the next eighteen years Mr. Peter MacEwan, Ph.C., whose name has occurred in an earlier paragraph in connexion with our text-books, was Editor. During, and even before, the war of 1914-18 Mr. MacEwan, as the trained eye of a journalist may

discover from internal evidence, felt the increasing pressure on space arising from the greater interest taken by chemists in pharmaceutical affairs: such an event as the passing of the first National Health Insurance Act did not fail to bring editorial problems. Mr. MacEwan maintained an adequate news service in being in spite of war-time restriction on supplies of paper and other difficulties; and on his death in 1917 many tributes to his fairness of outlook and his personal character were paid. His successor, Mr. Samuel Walter Woolley, Ph.C., continued and extended the week-to-week services of THE CHEMIST AND DRUGGIST during the next ten years, a period marked by more than one storm affecting pharmacy. Reference to some of these events is made in a later paragraph: it suffices to mention here that Mr. Woolley's impartial attitude to troubles of this kind was of the highest value as a steadying influence. He and his friend Sir William Glyn-Jones died, within a few weeks of each other, in the autumn of 1927. Since then the chair has been occupied by Mr. G. P. Forrester, F.C.S., Mr. A. St. Clair Geddes, Ph.C., and Dr. E. G. Bryant, B.Sc., Ph.C., the present Editor.

The first Publisher of the paper was Mr. James Firth, already a member of Messrs. Morgan Brothers' staff in 1859. In 1866 his services were transferred to "The Ironmonger"; then, for a few years, Mr. William Canning and Mr. Wootton supervised the work of publication. Mr. Henry Walker, whose total period of service extended to fifty-six years, commenced his duties as Publisher in 1870. During his régime the Coloured Supplement, since extensively copied in trade journalism, was introduced. Mr. Walker was followed in 1919 by Mr. William Chalmers, a pharmacist well known by frequenters of British Pharmaceutical Conference meetings. Mr. Chalmers retired in 1936, and was succeeded by Mr. John R. Goldthorpe.

Much might be written concerning the principal contributors to our pages, whose biographies would almost constitute, collectively, a history of British pharmacy for the past eighty years. Some have been mentioned in earlier paragraphs. One of the best known during the early years of the paper was Mr. Michael Carteighe, afterwards President of the Pharmaceutical Society for fourteen years. It is on record that Mr. Carteighe assisted our first Editor with various contributions; on one occasion, finding that the facts of a particular situation were contrary to his information, he forthwith "scrapped" an editorial article he had prepared and wrote another setting forth the opposite opinion. Other familiar names of that period include those of Henry Redue (first President of the British Pharmaceutical Conference), Henry Brady and J. C. Braithwaite. In later years such representative authorities as Dr. G. Claridge Druce, Dr. W. H. Martindale and Dr. Charles Singer have been among the valued authors of special articles.

Subsequent Developments

The events affecting pharmacy and its allied industries during the twenty years that have passed since the signing of the peace treaty at Versailles have differed, in more than one respect, from any then foreseen, and have at times imposed a severe strain on men in responsible positions. Before the decontrol of commerce could be effected, traders were harassed by the provisions of two successive Profiteering Acts, which rendered the investigation of complaints from customers—complaints for the most part trivial—a tedious formality with an uncertain ending. We took up the matter at an early stage by the publication of comparative tables of prices; and this action was strengthened by articles on the costing of dispensing written by Mr. John Netherway, the late Mr. C. T. Allen and others. Out of this trouble arose THE CHEMIST AND DRUGGIST Retail and Dispensing Price List, published quarterly (with interim revisions of prices), a unique standard of reference by reason of its unbiased authority. About the same time there began the controversy over the admission of apothecaries' assistants to the Register of Chemists and Druggists, a subject arousing a bitter division of opinion. But these two events did not exhaust the possibilities of trouble in pharmaceutical affairs; the general negotiations and discussions regarding Trade Boards and Whitley Councils culminated in a decision to have certain functions of the Pharmaceutical Society defined in a test case, duly heard and decided in a London court in the autumn of 1920. As an outcome there came the formation of the National Pharmaceutical Union (at first known as the Retail Pharmacists' Union), which took over, among other things, the functions of the old Local Associations Executive.

While these events were happening, the terms for dispensing

National Health Insurance prescriptions were causing dissatisfaction—as, indeed, they have continued to do. An alarm affecting a limited number of pharmacists was raised during the passing into law of the Dentists Act of 1921, when a preposterous clause was suggested in violation of their existing rights; after energetic opposition the clause was withdrawn. In the same year the first Dangerous Drugs Act came into force by the now usual method of Regulations; it was our task to elucidate these in our weekly issues, in the *Diary* for 1922, and by means of a Poisons Card. Another important event marking the year 1921 was the advent of the Safeguarding of Industries Act, a piece of legislation engendering numerous applications heard by an official referee and fully reported by us. The misconceived animosity of various local authorities gave the year 1923 an unenviable distinction by way of prosecutions launched after tests of dispensing had been made: it eventually came to be realised that, as we contended, public analysts were not necessarily impeccable, and the campaign died away. The Pharmacy and Poisons Act (Northern Ireland), 1925, which embodied a few innovations, received a detailed exposition in our columns. In the following year the jubilee of the Pharmaceutical Society of Ireland was the occasion of a series of authoritative articles on its history. The Labelling of Poisons Order, 1924, came into force that year, bringing with it queries that occupied considerable space in our Correspondence section; and at the same time a new Merchandise Marks Act received careful scrutiny. In that year, too—the year of the General Strike that caused weekly newspapers to suspend publication for a brief period—we collated details of methods of preparing pharmacopœias in twenty-three countries, a collation helpful, we believe, in securing the more adequate recognition of pharmacists in planning pharmacopœial revision in this country.

The concession granted by the Board of Customs and Excise in 1929 in respect of dispensed proprietary medicines was heavily counterbalanced by a letter from the same authority on March 1, 1930, prescribing for vendors of proprietary medicines the alternatives of stamping or of declaring formulas in full detail. A High Court decision in November, 1931, appeared to confirm the previously accepted usage that reference on labels to an officially accepted book was a sufficient declaration for administrative purposes; but no modification of the official attitude has so far been obtained. The recent proposal of the Chancellor of the Exchequer to abolish medicine-stamp duties and the associated licence duty is fresh in the minds of our readers, and need not be further referred to here. Another notable event of the year 1930 was the issue of the Departmental Committee's report on the Poisons and Pharmacy Acts, with the consequent introduction of a Bill based on its findings. As is generally remembered, two meetings of representatives from branches of the Pharmaceutical Society were subsequently held in London, and various negotiations took place before the Pharmacy and Poisons Act of 1933 passed through Parliament. The chief occurrences of the year 1932 were the issue of a new British Pharmacopœia, the signing of the Ottawa agreements and the passing of the Import Duties Act, all of which made large demands on our space.

The year 1933 saw the inception of what was variously described as a sporting action on the part of the panel chemists and as an economy cut—a new arrangement by which contractors for National Health Insurance dispensing undertook to allow discounting of their accounts in the event of a fixed sum not proving to be sufficient for payment in full. This uncomfortable arrangement was abolished last year. At its annual meeting in 1933 the British Pharmaceutical Conference celebrated its seventieth anniversary. In 1934 and 1935 attempts were made to pass through Parliament an agreed Bill for regulating advertisements of medicines and surgical appliances; but when success appeared to be in sight, the measure, on the preparation of which much time had been spent by the interests concerned, was "talked out." The earlier of these two years was marked by the passing of a new Shops Act and the issue of a revised British Pharmaceutical Codex, the latter by the completion of the Poisons List and Poisons Rules and the launching of the Chemists' Friends scheme. The next year, 1936, was distinguished chiefly by the publication of the report of the Select Committee on Medicine Stamp Acts, a document that appears to have found the greatest favour in quarters most hostile to pharmacy. In the same year a new Sunday Trading Act became law, an Addendum to the British Pharmacopœia was published, and the subject of air-raid precautions assumed an inevitable prominence.

Miscellaneous Inquiries

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them

G. C. (4/9).—COLOURING ELECTRIC LIGHTS.—First make a solution of white of one egg in one pint of water and filter. Clean and polish the lamps and then dip into the solution and hang up to dry. Immerse in the colouring solution made by dissolving 10–30 grains of a suitable aniline dye, in 4 oz. of collodion and hang up to dry. An alternative colouring solution to be used after the albumen solution is as follows:—

Shellac	..	..	..	..	90 gm.
Resin	..	..	..	..	30 gm.
Benzoin	..	..	..	..	5 gm.
Methylated spirit	..	..	..	..	300 cc.
Aniline dye	..	..	..	..	as required

F. C. P. (4/9).—BOTTLE-CAPPING SOLUTION.—The following formulas will probably be suitable for your purpose:—

I					
Gelatin	..	..	..	..	500 parts
Gum acacia	..	..	..	..	100 parts
Salicylic acid	..	..	..	..	4 parts
Water	..	..	..	..	1400 parts
Starch	..	..	..	..	200 parts
Aniline dye	..	..	..	..	a sufficiency

Heat the gelatin, gum acacia and salicylic acid with 1000 parts of water. Strain, add the starch and the remainder of the water as well as the dye. For use, warm the paste and dip the neck of the bottle into the paste.

II					
Resin	..	..	..	..	4 oz.
Yellow wax	..	..	..	..	9 oz.

Melt together and colour with lampblack, ultramarine blue, vermilion or other mineral colour.

H. McG. (1/8).—FRENCH POLISHING.—The furniture should be carefully washed with soap and water and thoroughly dried, any bad patches being smoothed with a little fine glass-paper. After removing dust and moisture, soak a rag with linseed oil and just touch it against the middle of a rubber (made by covering a rolled strip of flannel in a piece of cloth) which has been soaked in the French polish. Begin the polishing on a flat surface with a circular motion, keeping to one part a few inches square until the surface is satisfactory. If the rubber sticks, just touch it with spirit and the oily rag. When one part is finished, begin on the next. The following are satisfactory formulas for French polish:—

I					
Shellac	..	..	20 oz.		
Mastic	..	..	3 oz.		
Sandarac	..	..	6 oz.		
Elemi	..	..	½ oz.		
Spirit	..	..	1 gall.		

II					
Shellac	..	..	12 oz.		
Gum thus	..	..	2 oz.		
Sandarac	..	..	3 dr.		
Oxalic acid	..	..	3 dr.		
Spirit	..	..	8 oz.		

Dissolve and strain.

Retrospect of Fifty Years Ago

Reprinted from

"The Chemist and Druggist," September 14, 1889

Science and Commerce in Pharmacy

Imbued with the spirit of his surroundings the president [of the British Pharmaceutical Conference] wound up his varied and interesting speech with some earnest words in commendation of scientific pharmaceutical research; but, true to his own practical way of regarding things, he aimed to show that there were unlimited openings for profit resulting from such labours. Far be it from us to damp any budding scientific ardour which may be likely to burst forth in our ranks; and we firmly believe that there are many openings in pharmacy and in chemistry for men well equipped with scientific armour. But it will not be wise to depend too much on the president's seductive words if commercial success is the object principally sought after. Even the dazzling examples quoted do not quite prove this result to have been invariably attained. One set of scientific alkali-makers have been, says the president himself, "partially dislodged and well-nigh ruined" by another set, both sets working on scientific principles; the scientific cinchona-planters of Ceylon, the Nilgiris, and Java have, he tells us, induced the cry of "Hold, enough!"

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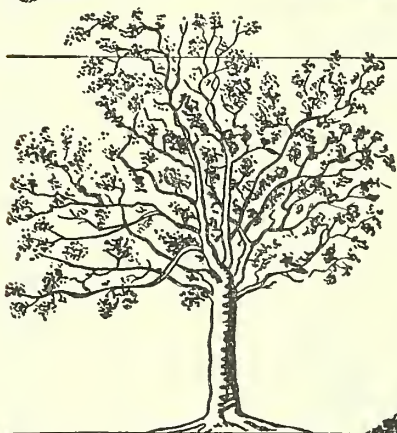
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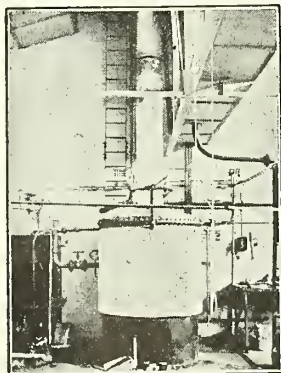
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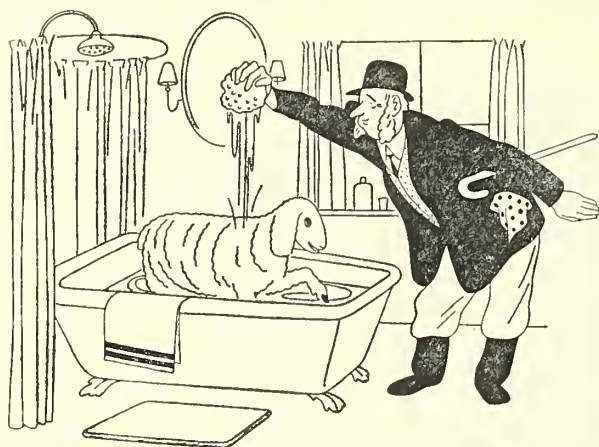
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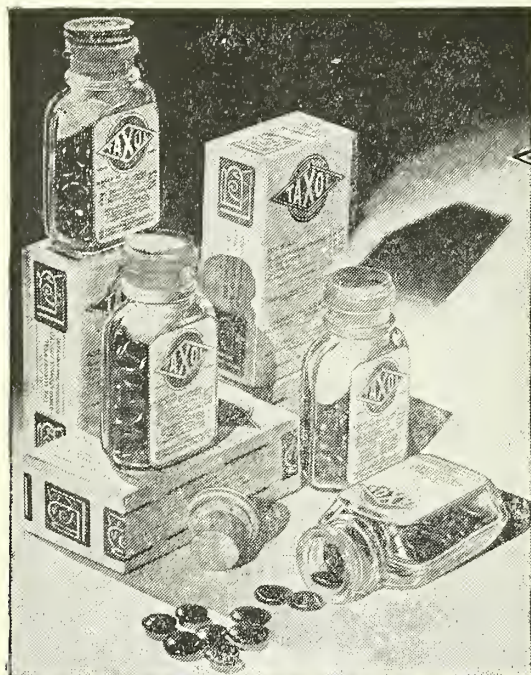
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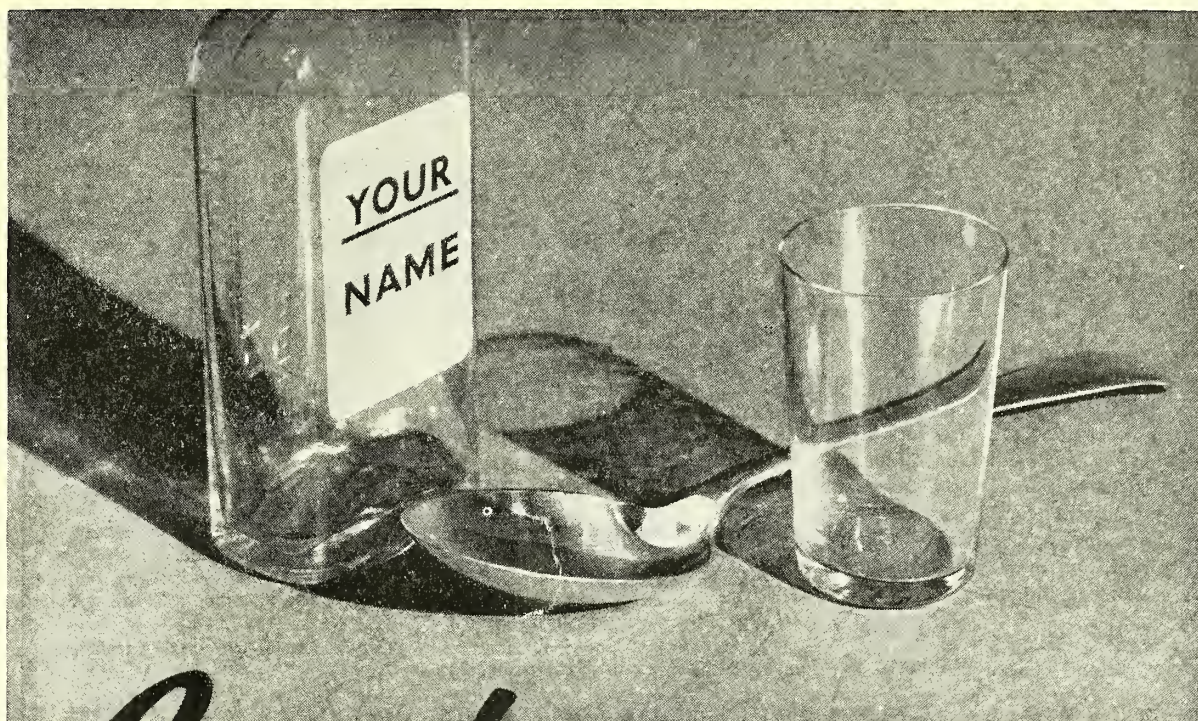
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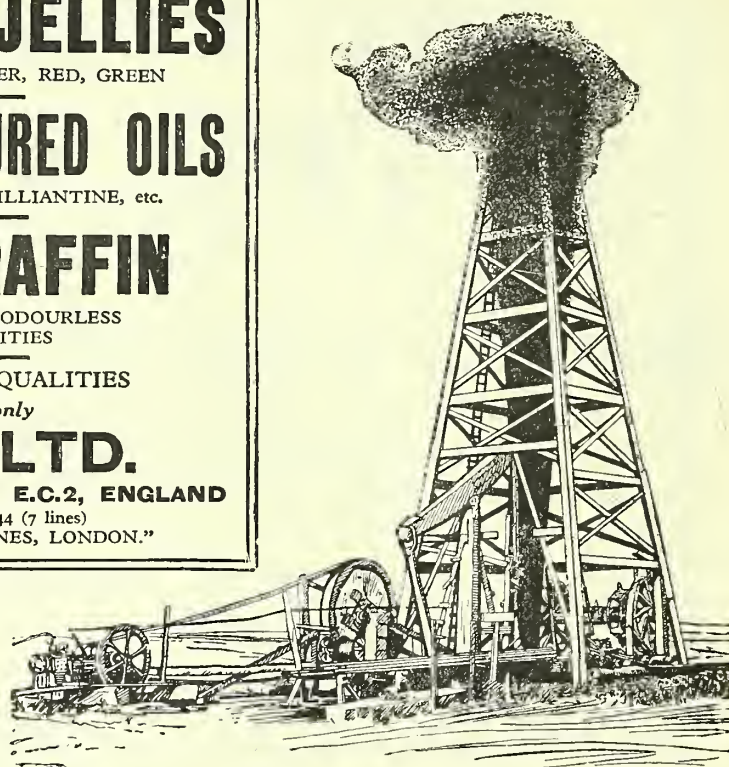
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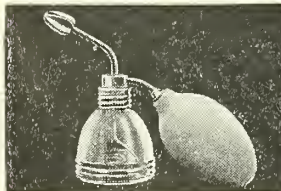
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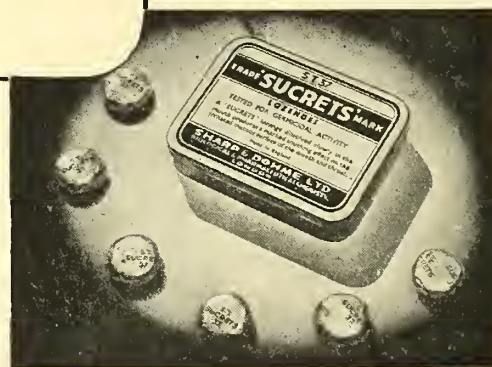


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